

FIG.1

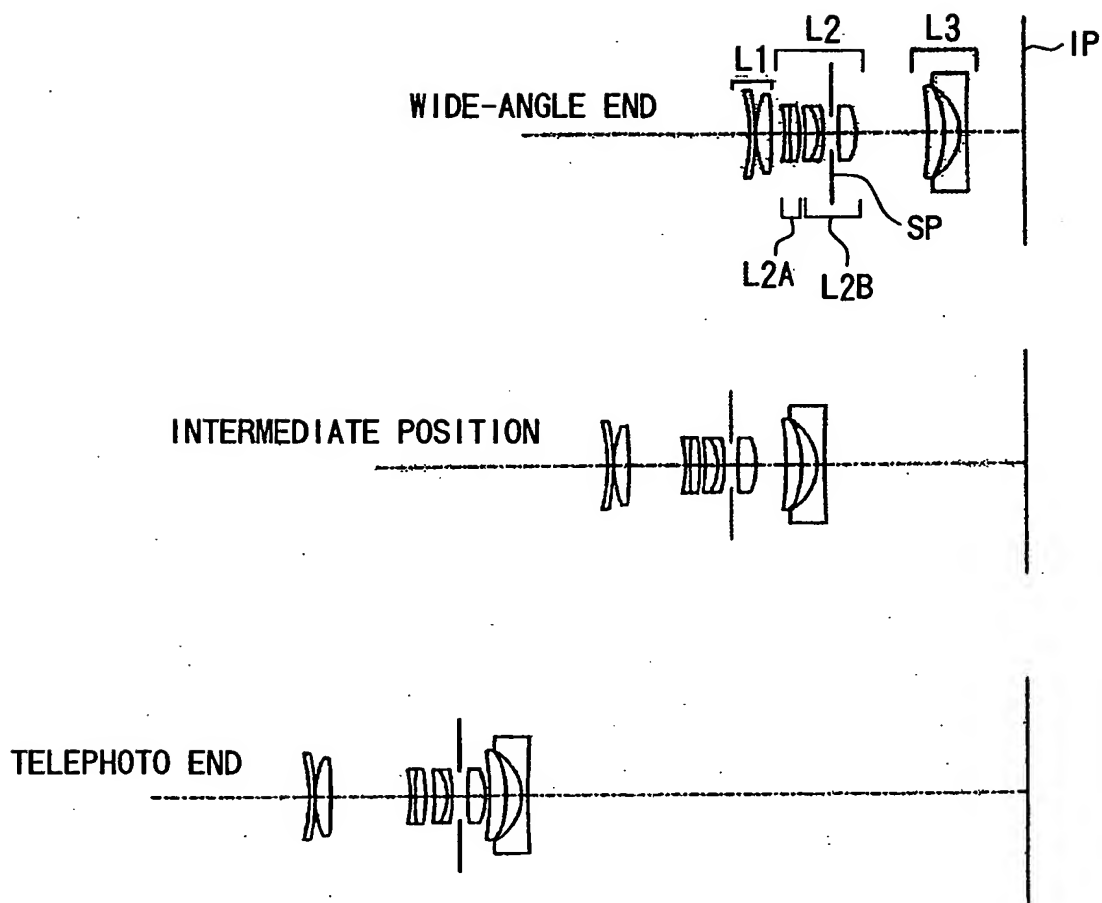


FIG.2A

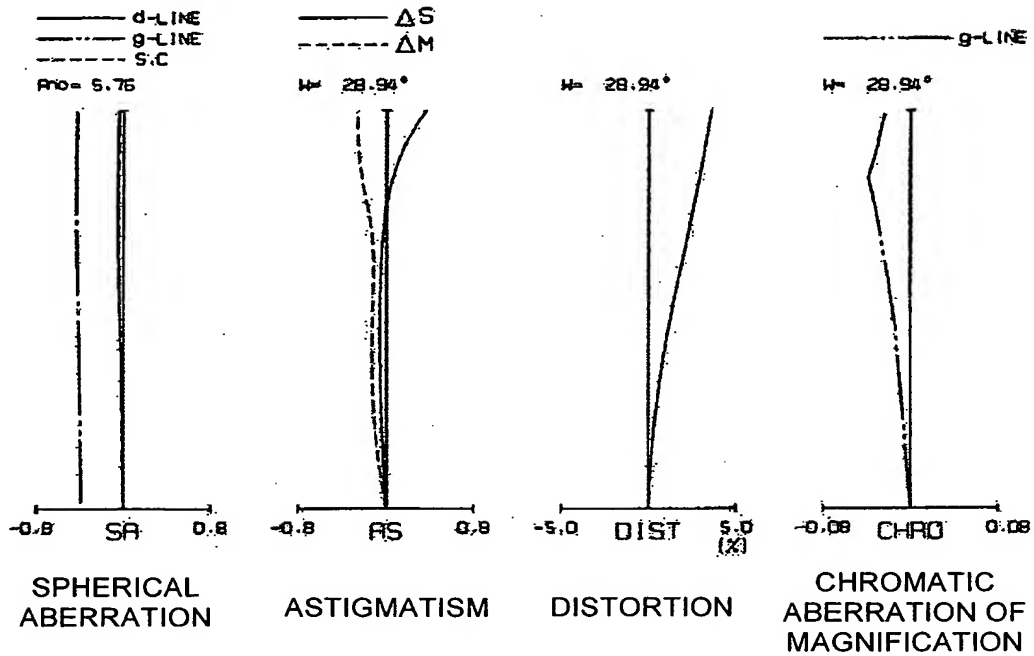
 $f = 39.13$ 

FIG.2B

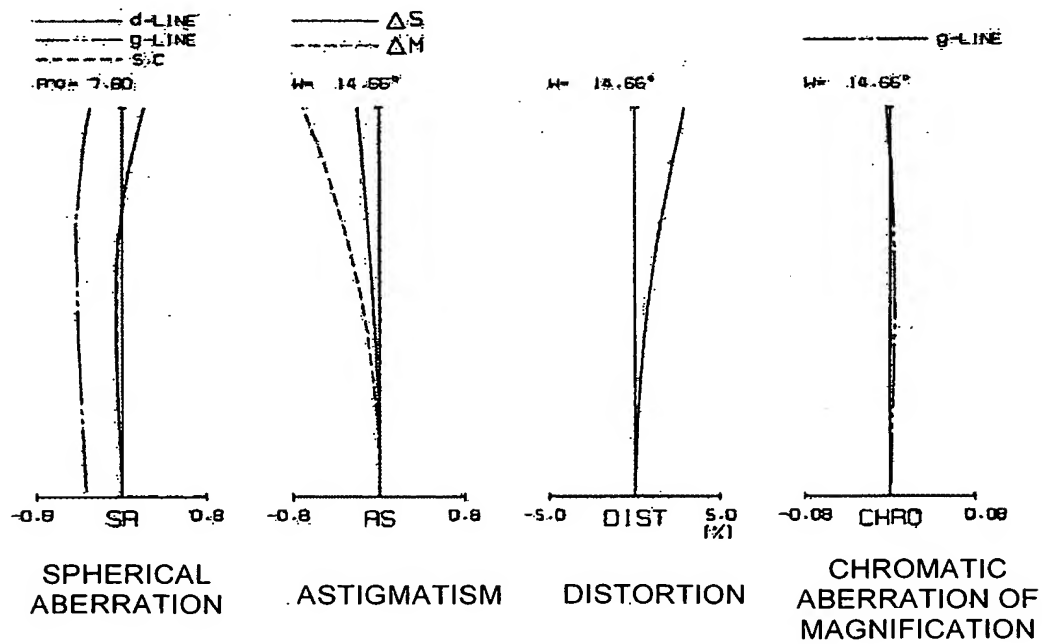
 $f = 82.68$ 

FIG.2C

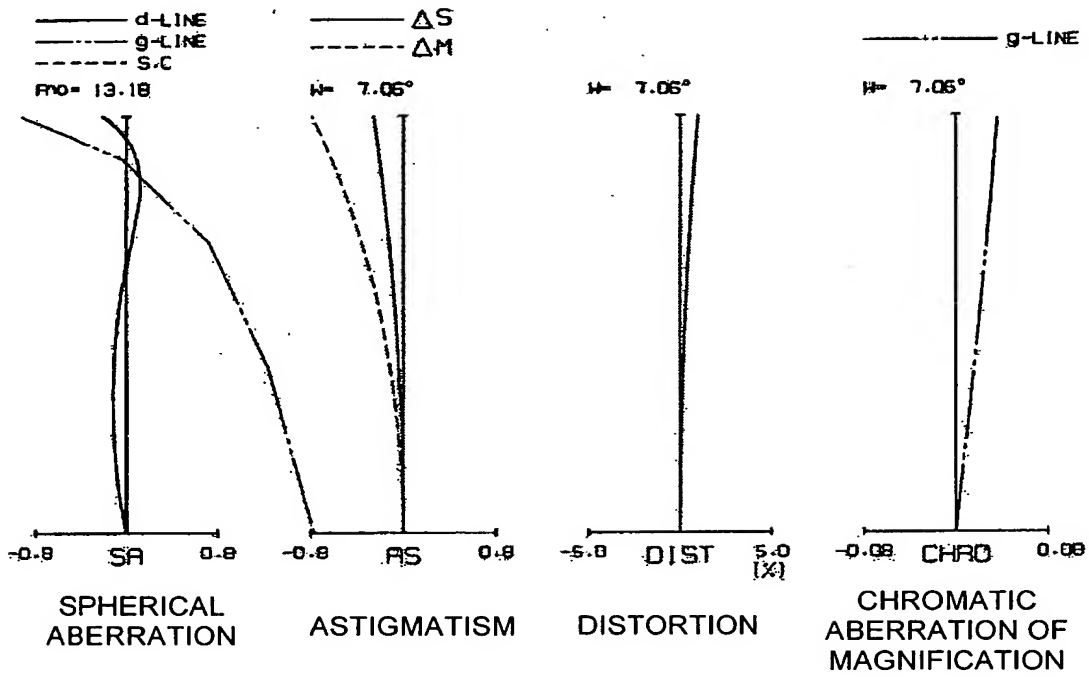
 $f = 174.73$ 


FIG.3A

OBJ= 800.00

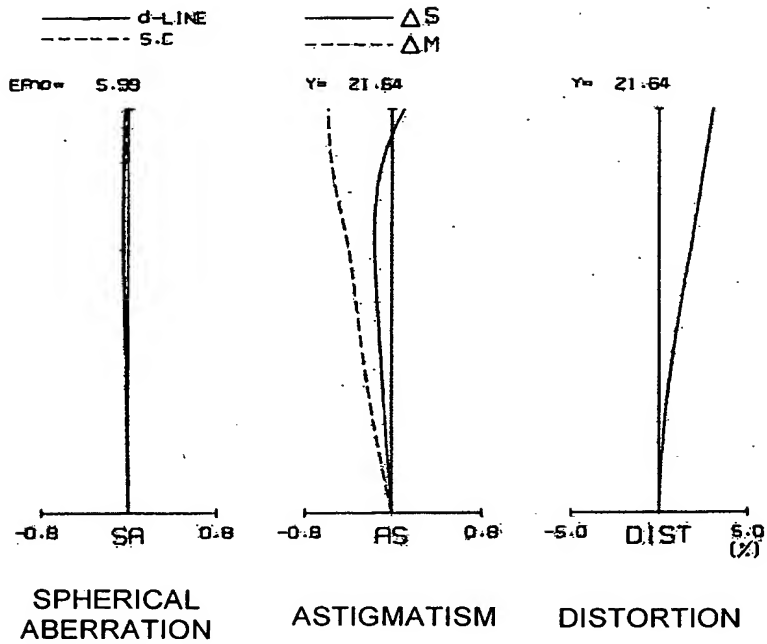


FIG.3B

OBJ= 800.00

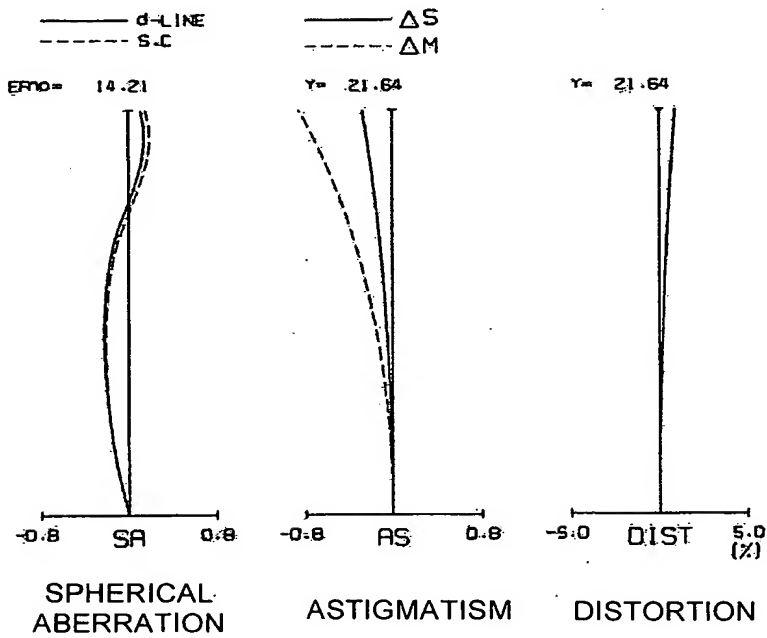


FIG.4A

OBJ= 800.00

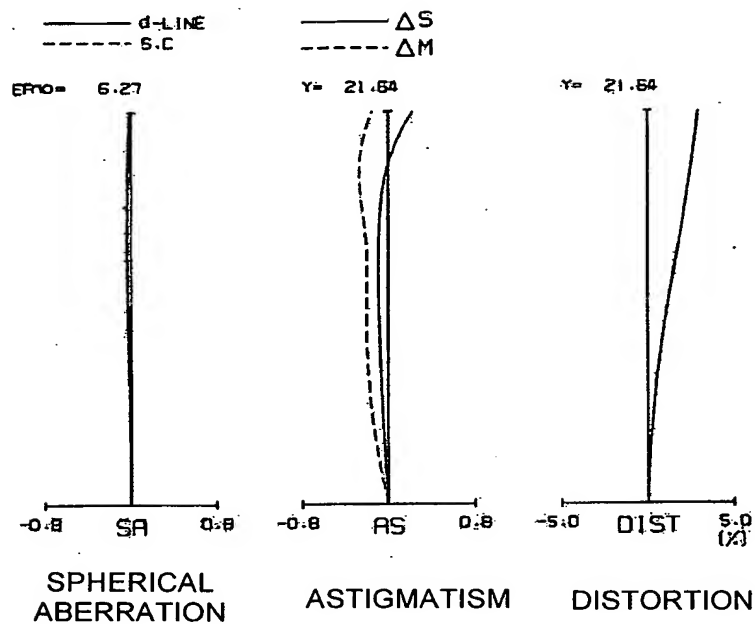


FIG.4B

OBJ= 800.00

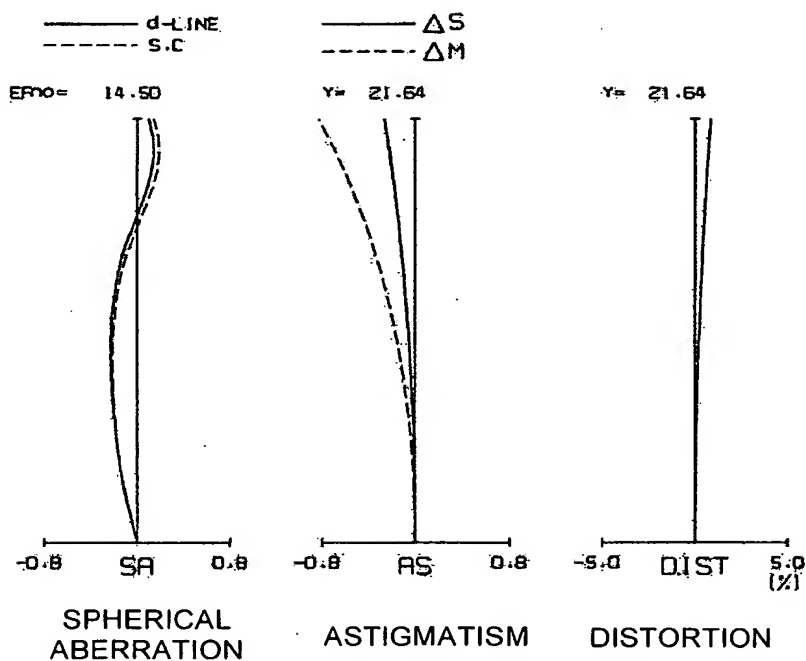


FIG.5A

OBJ= 800.00

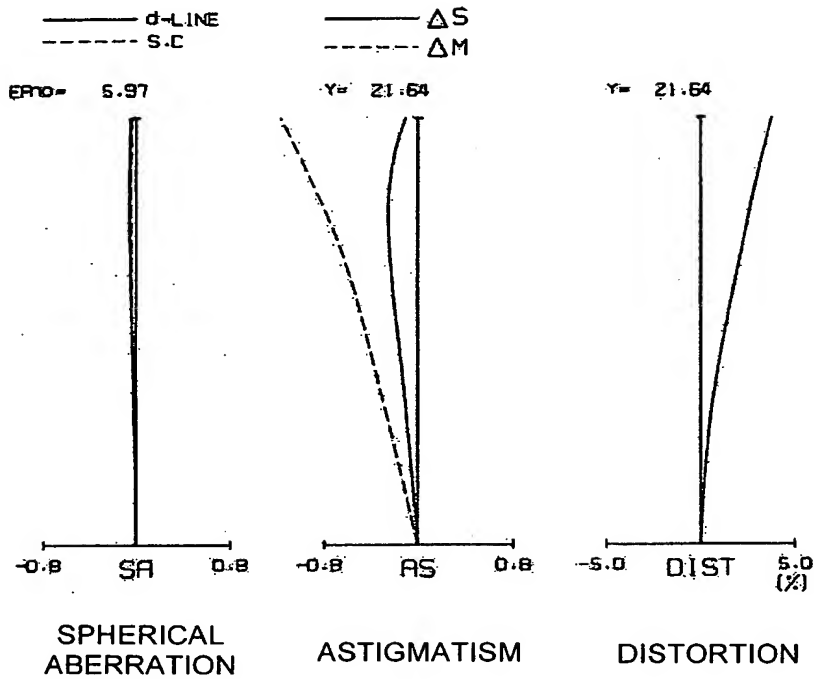


FIG.5B

OBJ= 800.00

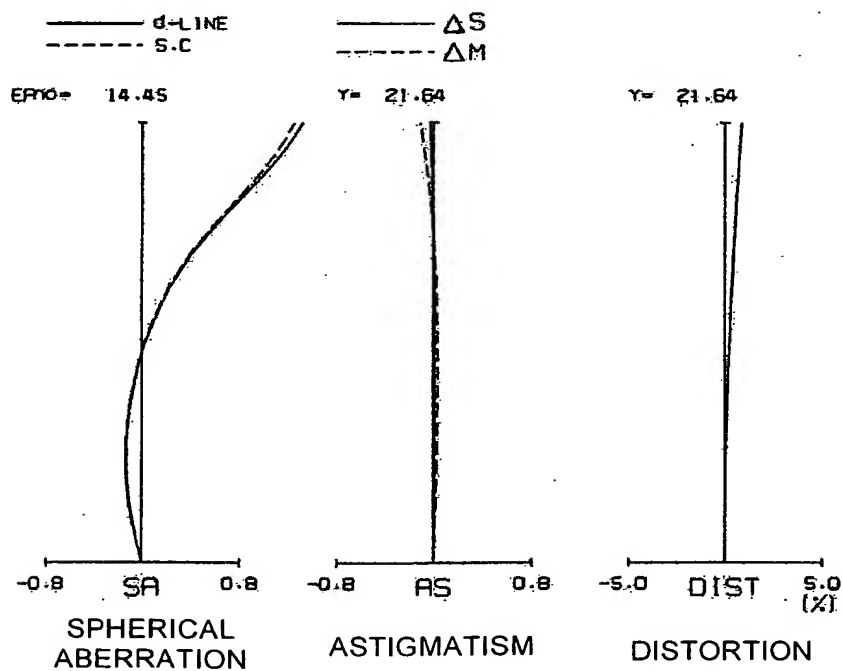


FIG.6A

OBJ= 800.00

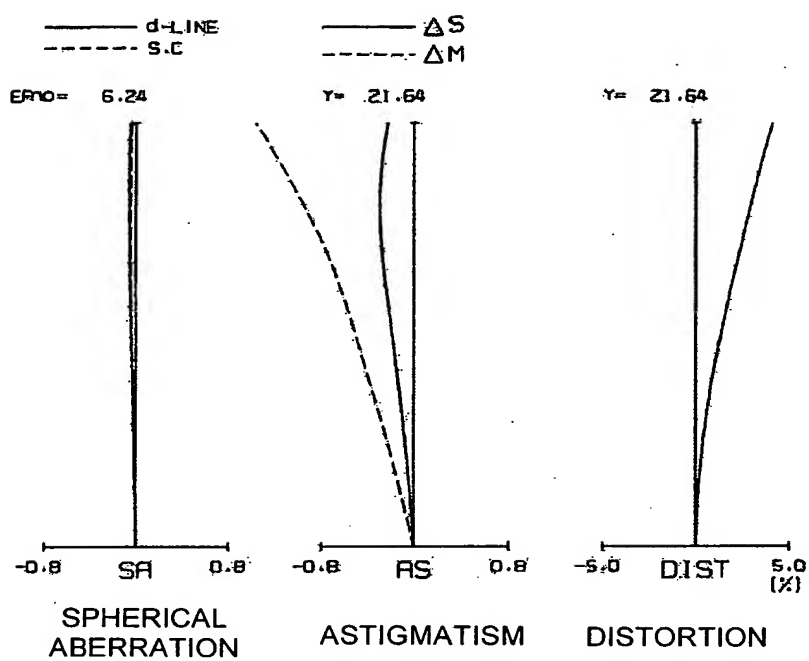


FIG.6B

OBJ= 800.00

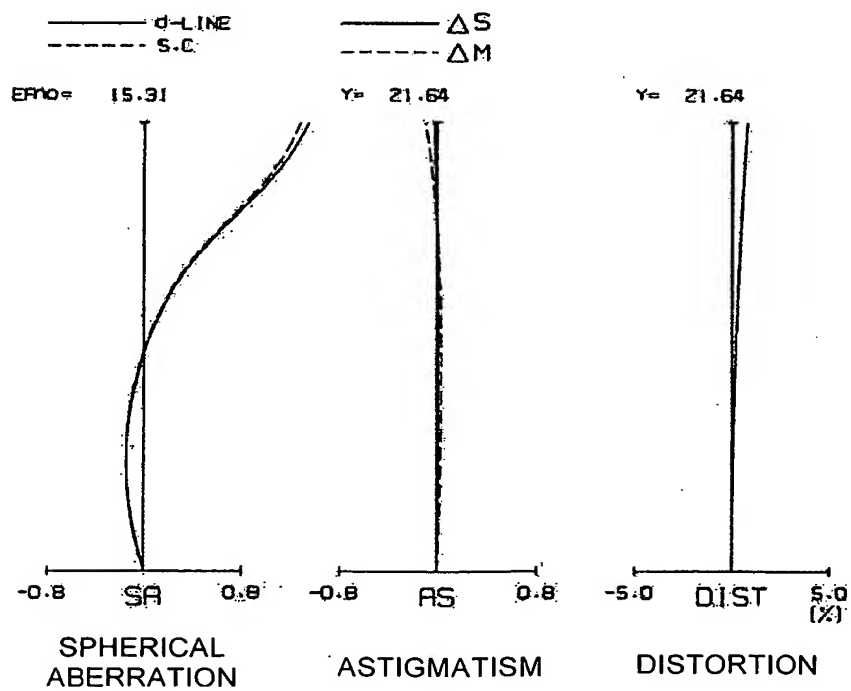


FIG.7

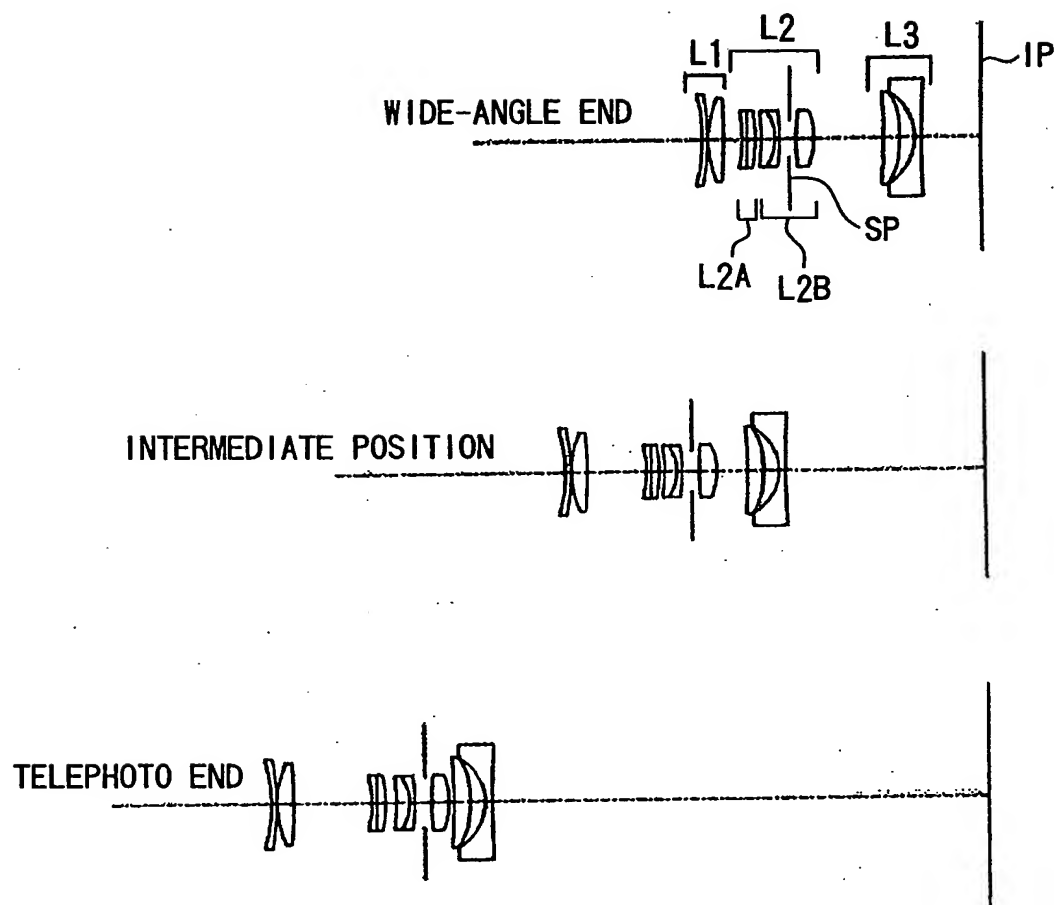




FIG.8A

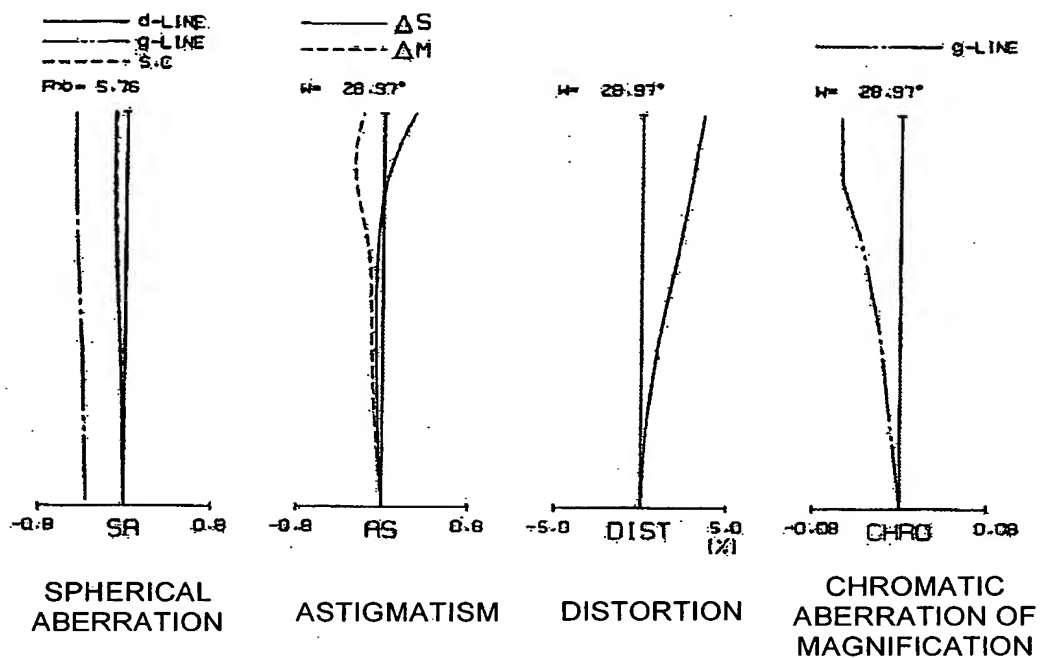
 $f = 39.08$ 

FIG.8B

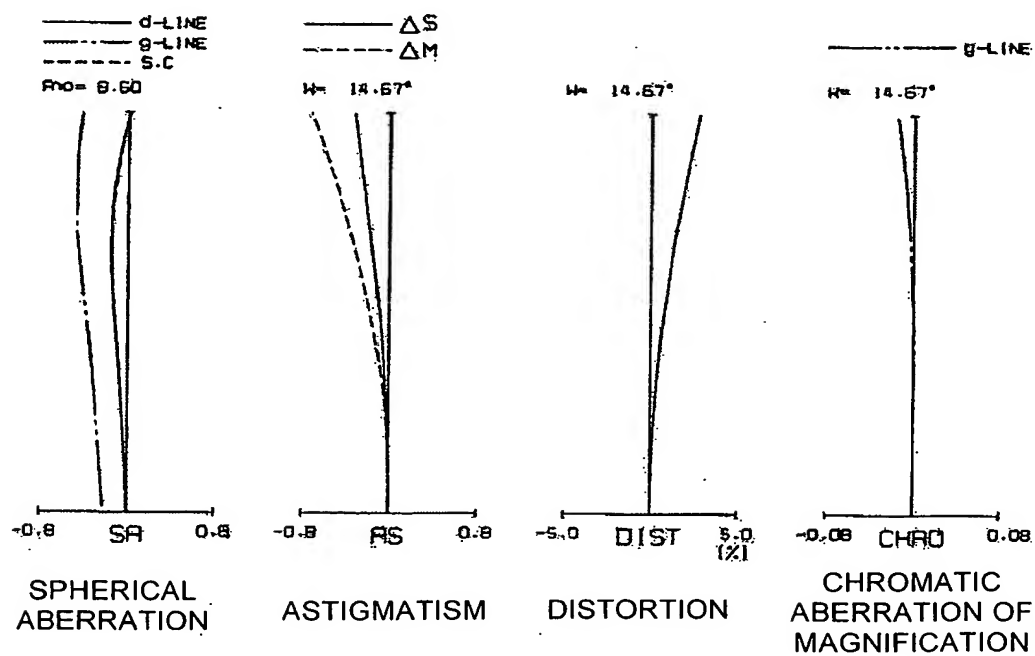
 $f = 82.64$ 

FIG.8C

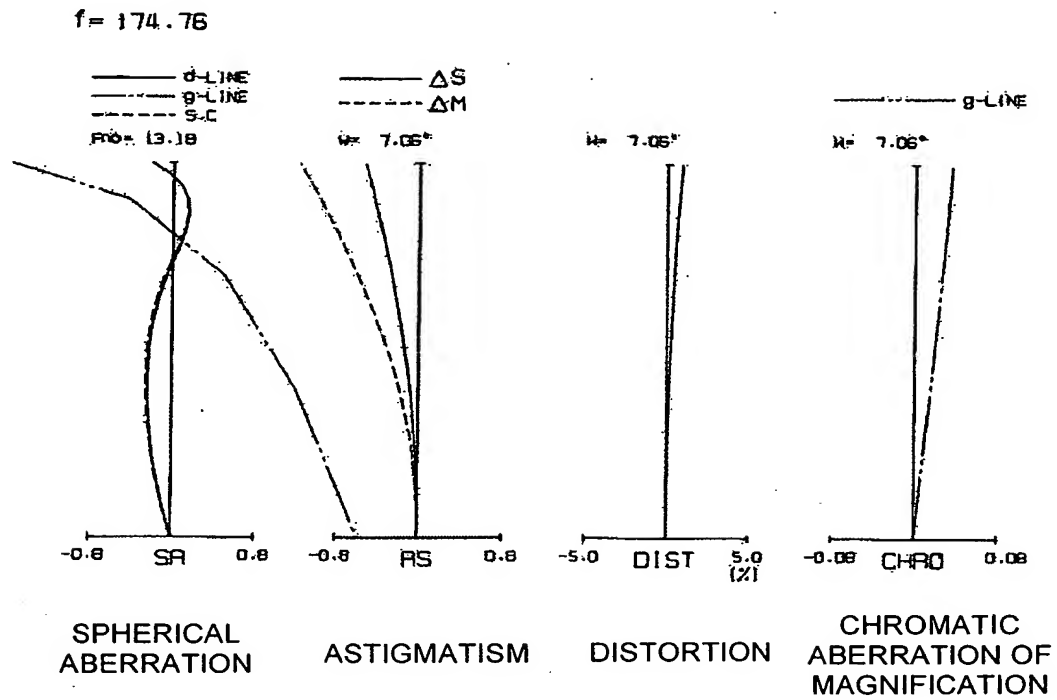


FIG.9A

OBJ= 800.00

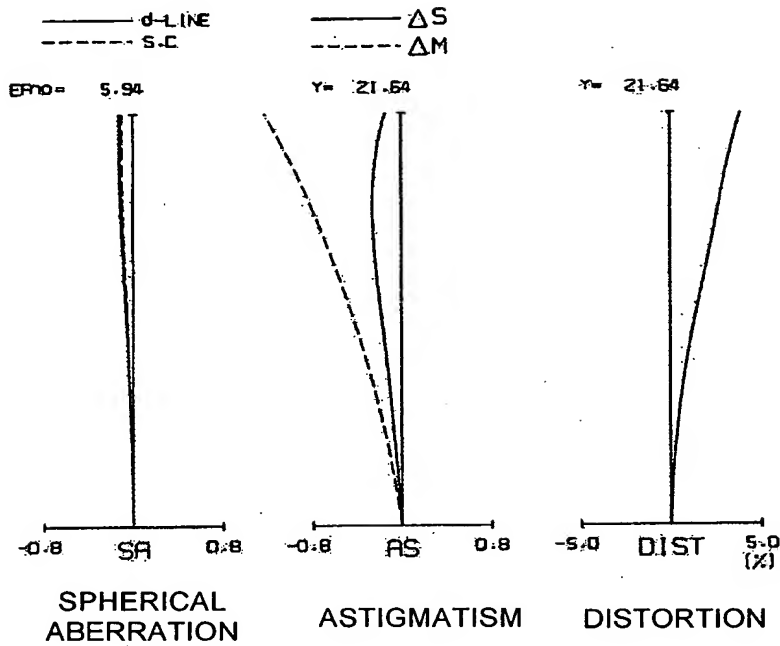


FIG.9B

OBJ= 800.00

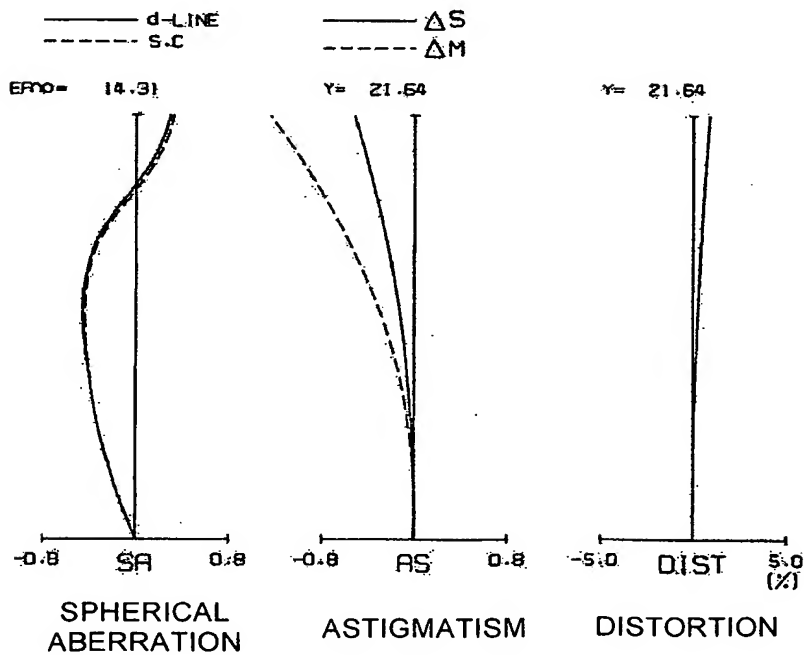


FIG.10A

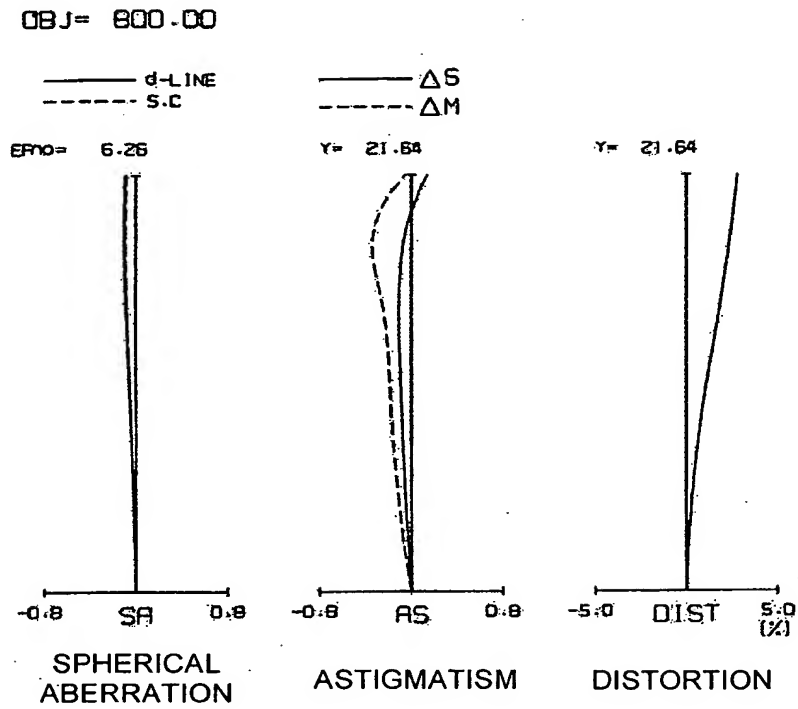


FIG.10B

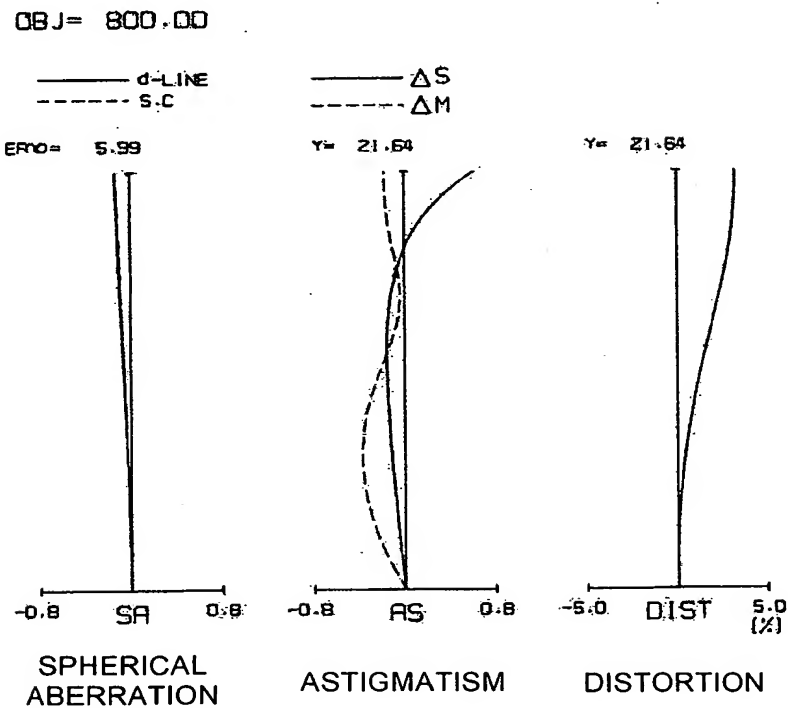


FIG.11A

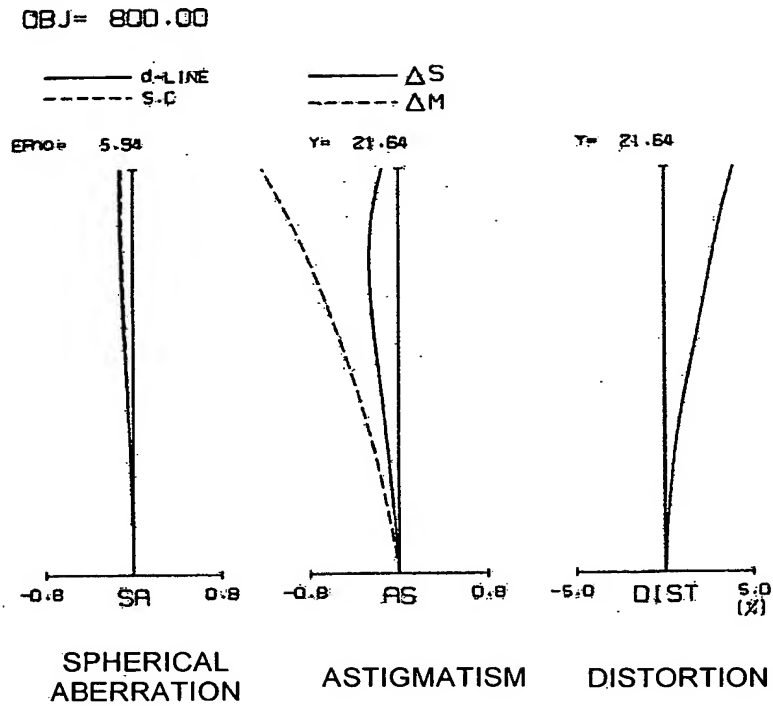


FIG.11B

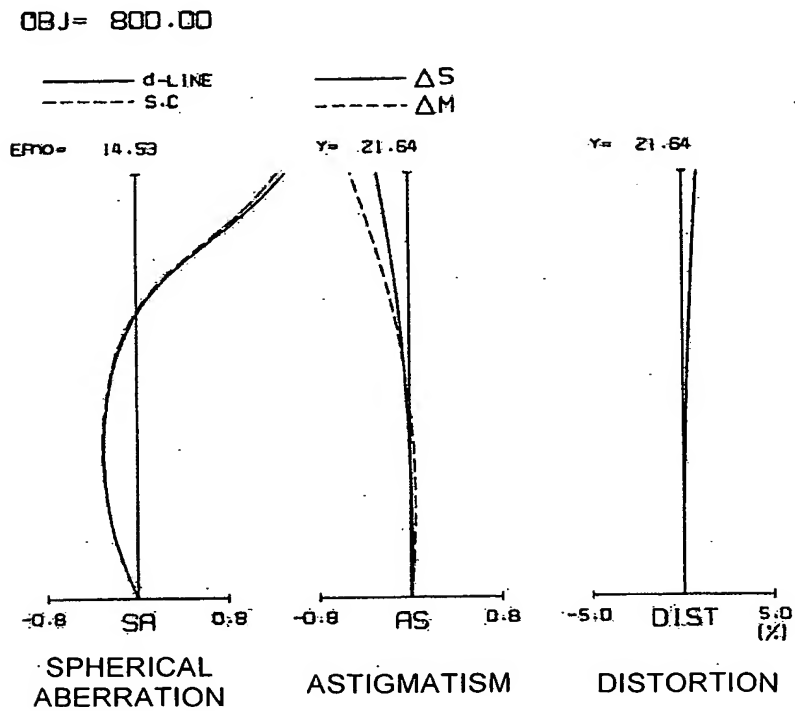


FIG.12A

OBJ= 800.00

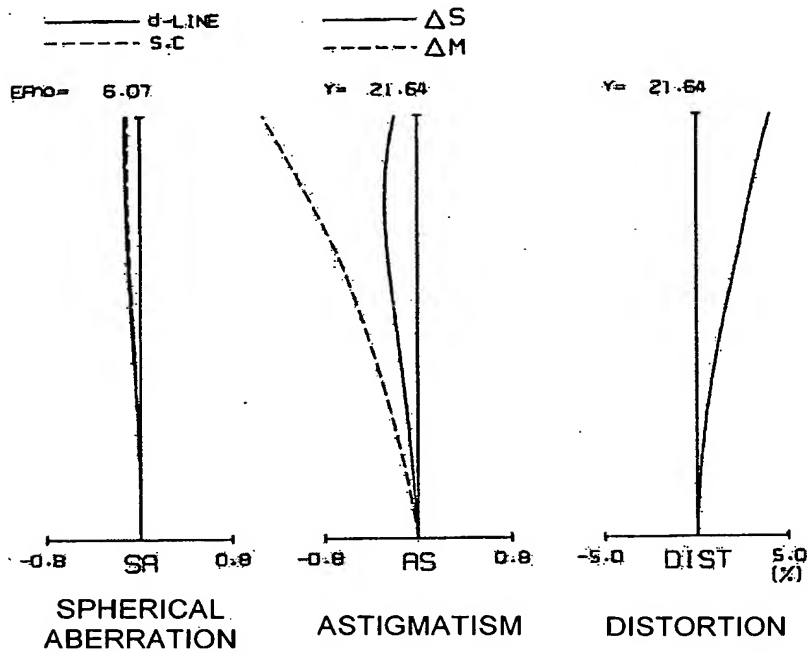


FIG.12B

OBJ= 800.00

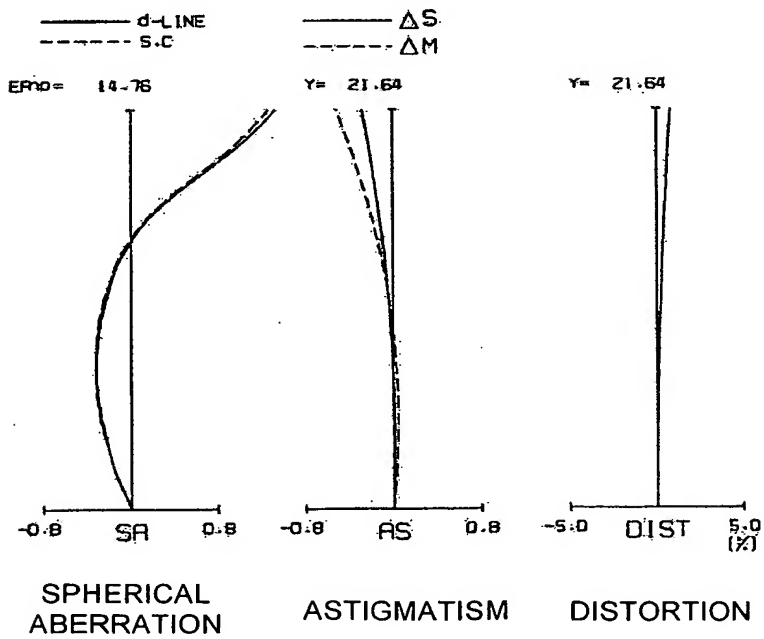


FIG.13

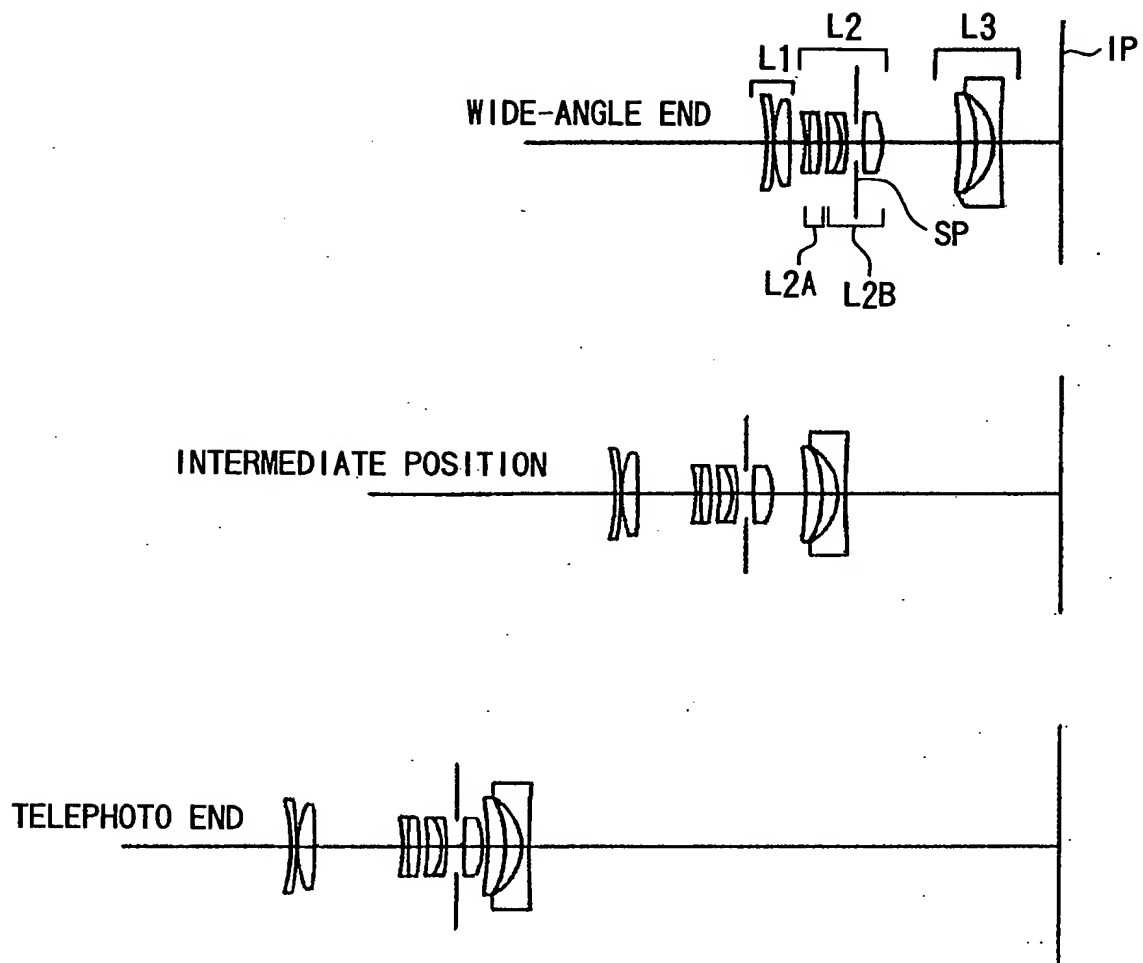


FIG.14A

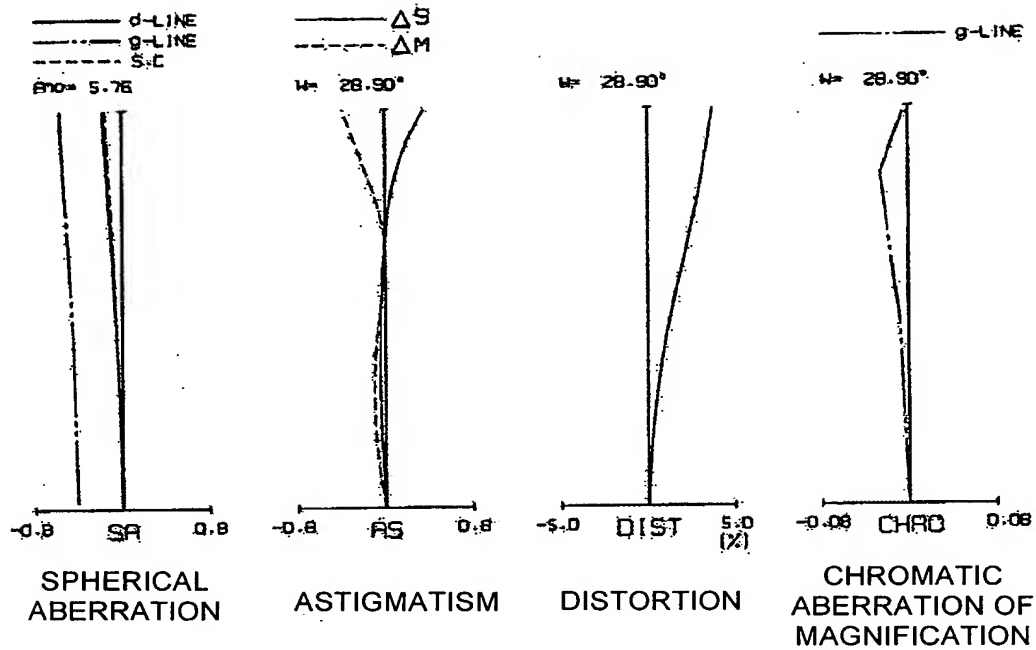
 $f = 39.20$ 

FIG.14B

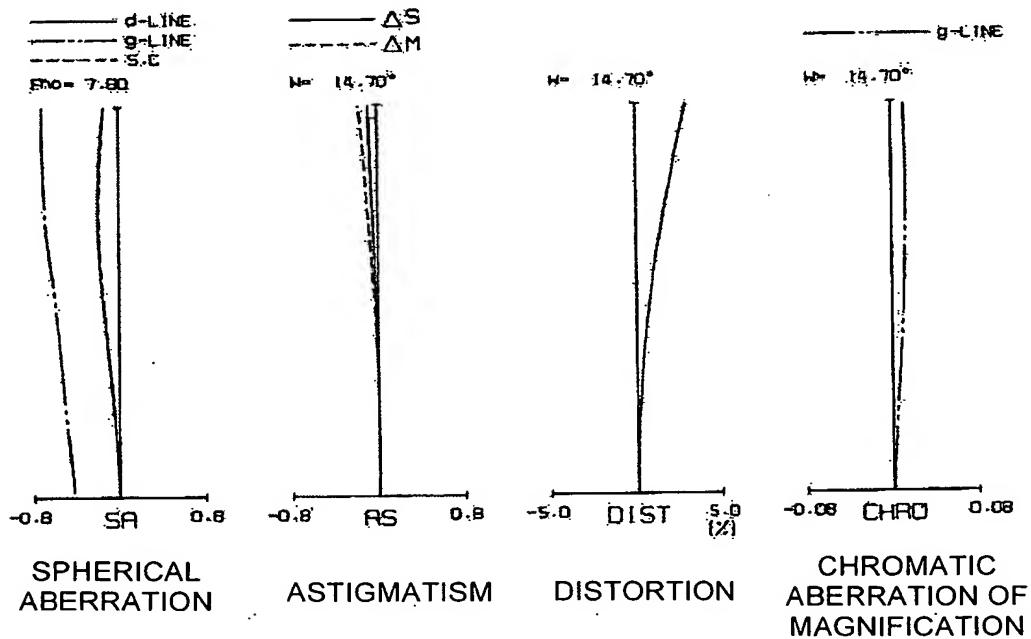
 $f = 62.48$ 



FIG.14C

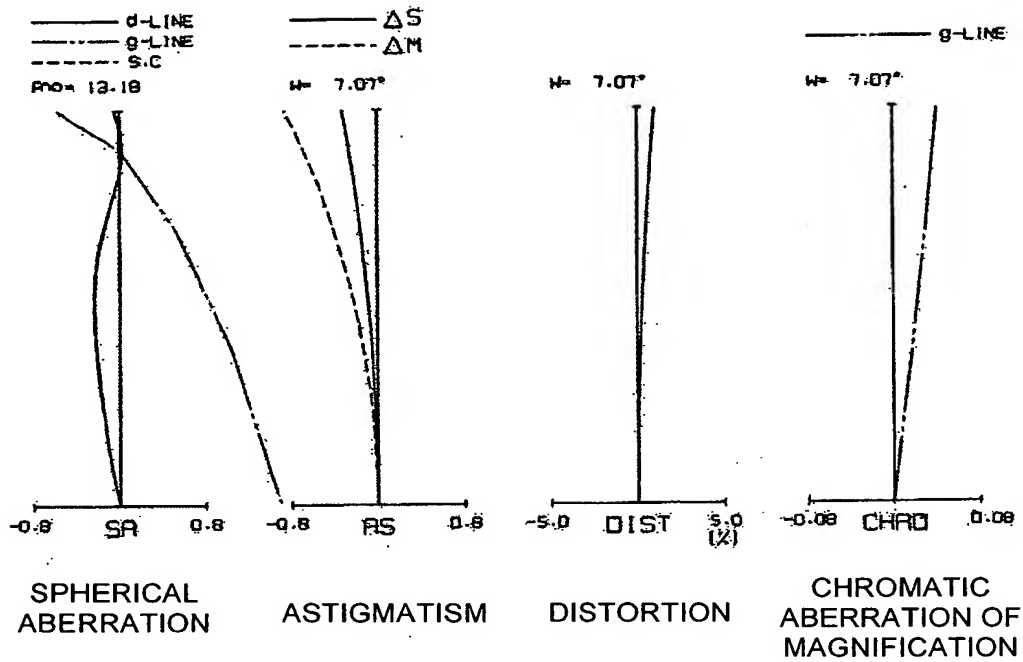
 $f = 174.48$ 


FIG.15

OBJ= 800.00

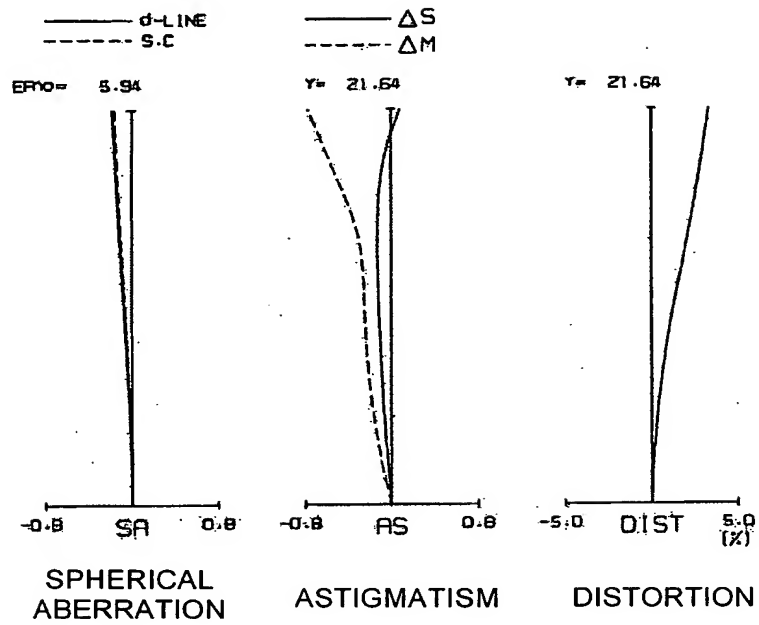


FIG.16

OBJ= 800.00

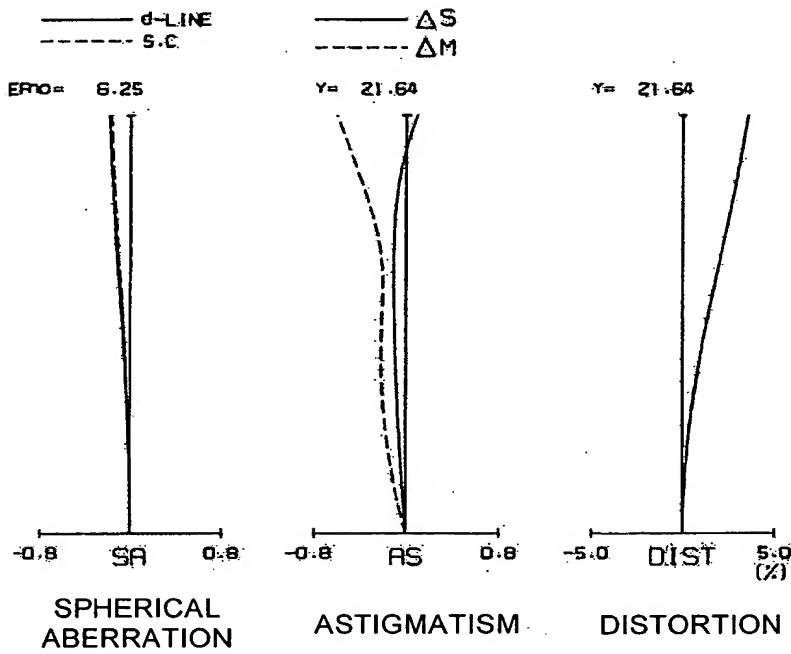


FIG.17A

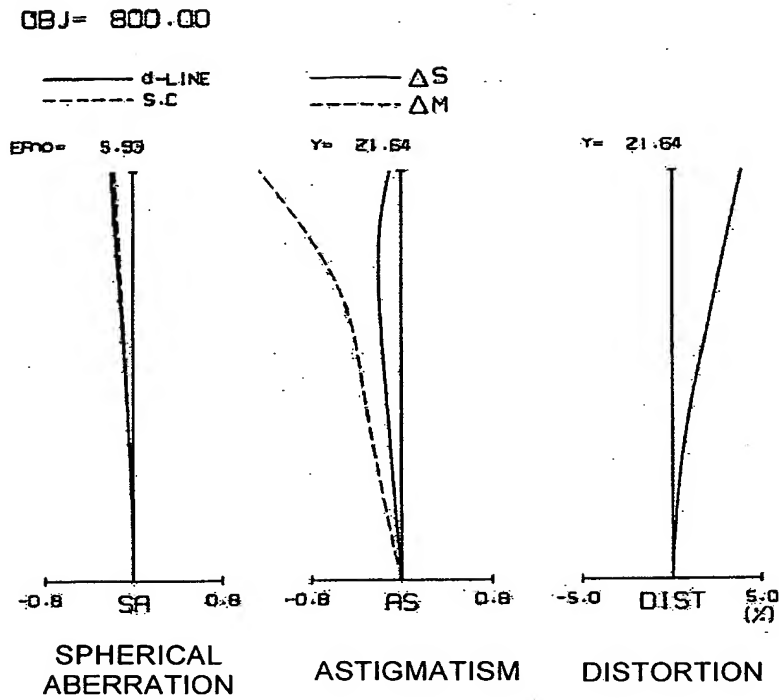


FIG.17B

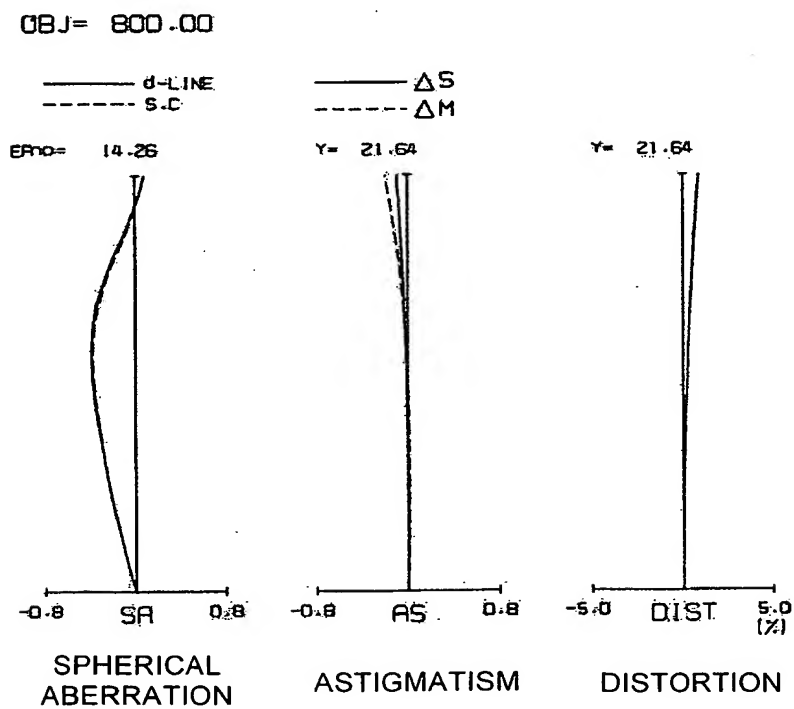


FIG.18A

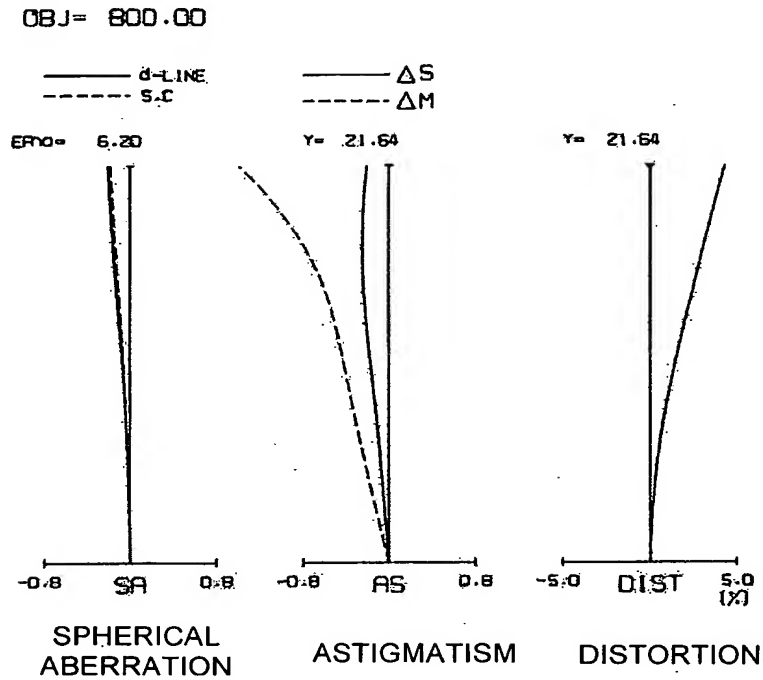


FIG.18B

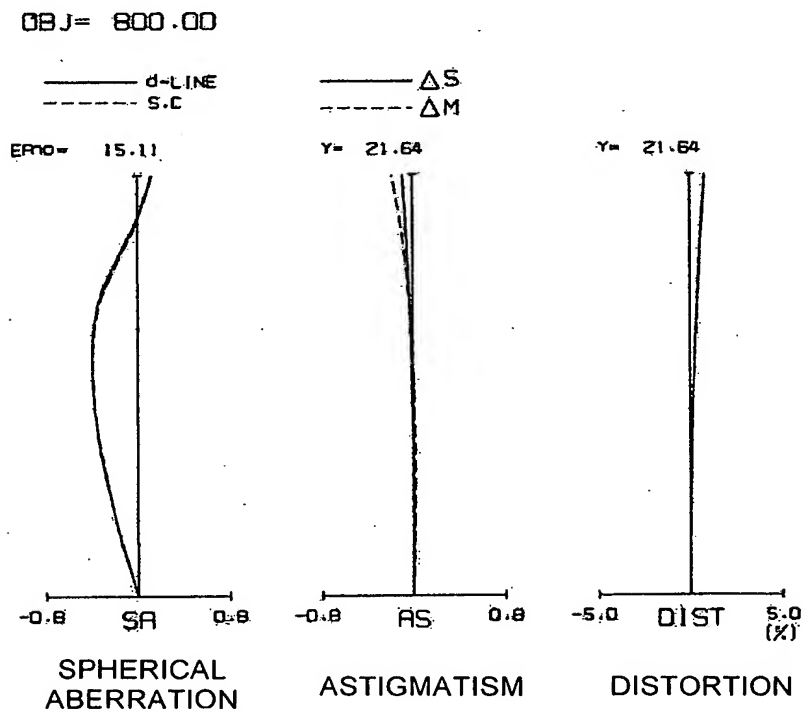


FIG. 19

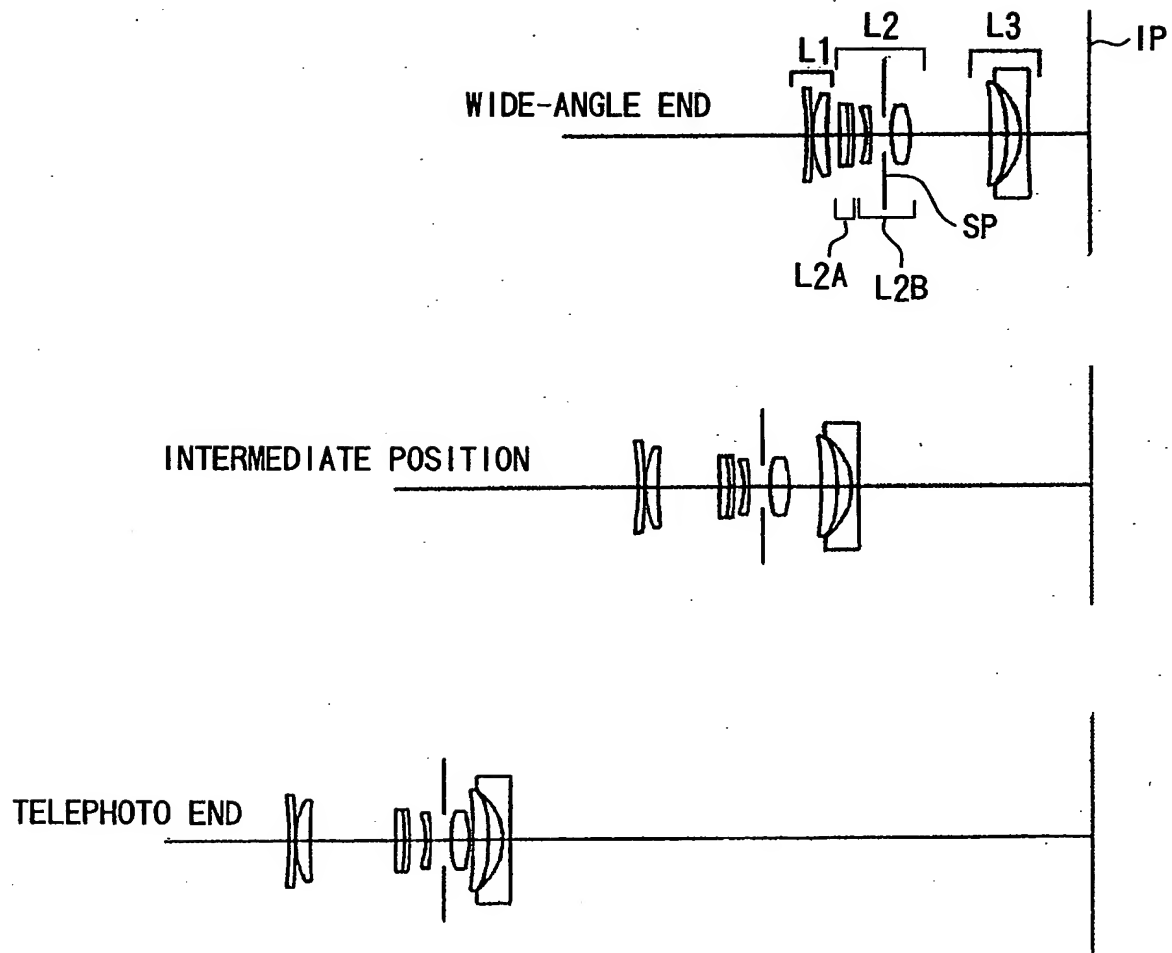
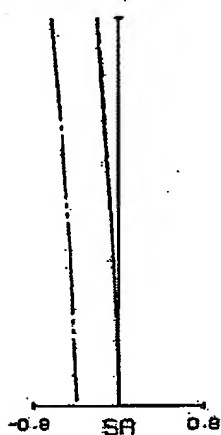


FIG.20A

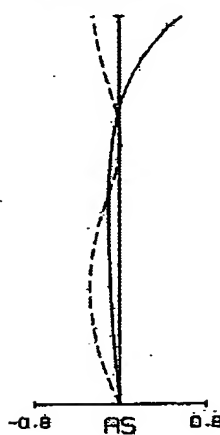
 $f = 39.15$ 

— d-LINE  
 - - - g-LINE  
 - - - S.C  
 $\rho_{10} = 5.75$

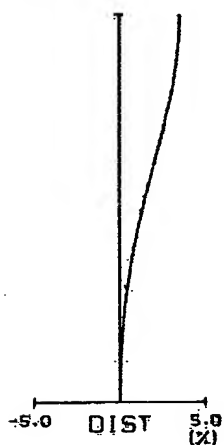


SPHERICAL  
 ABERRATION

—  $\Delta S$   
 - - -  $\Delta M$   
 $W = 28.93^\circ$

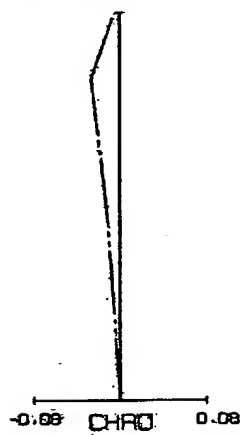


ASTIGMATISM

 $W = 28.93^\circ$ 

DISTORTION

— g-LINE  
 $W = 28.93^\circ$

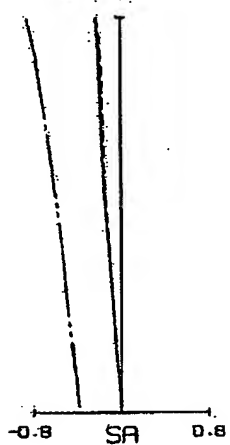


CHROMATIC  
 ABERRATION OF  
 MAGNIFICATION

FIG.20B

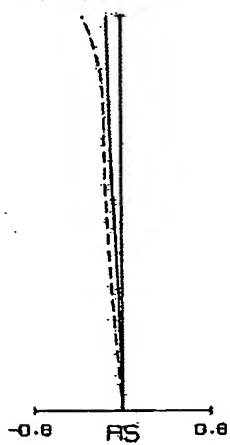
 $f = 82.66$ 

— d-LINE  
 - - - g-LINE  
 - - - S.C  
 $\rho_{10} = 8.70$

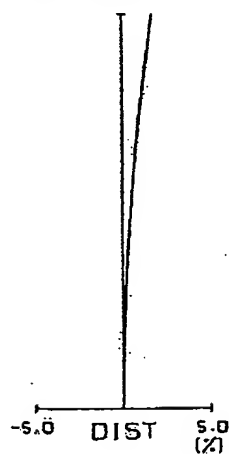


SPHERICAL  
 ABERRATION

—  $\Delta S$   
 - - -  $\Delta M$   
 $W = 14.67^\circ$

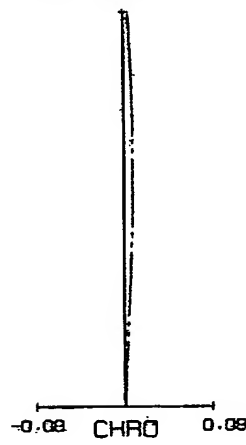


ASTIGMATISM

 $W = 14.67^\circ$ 

DISTORTION

— g-LINE  
 $W = 14.67^\circ$



CHROMATIC  
 ABERRATION OF  
 MAGNIFICATION

FIG.20C

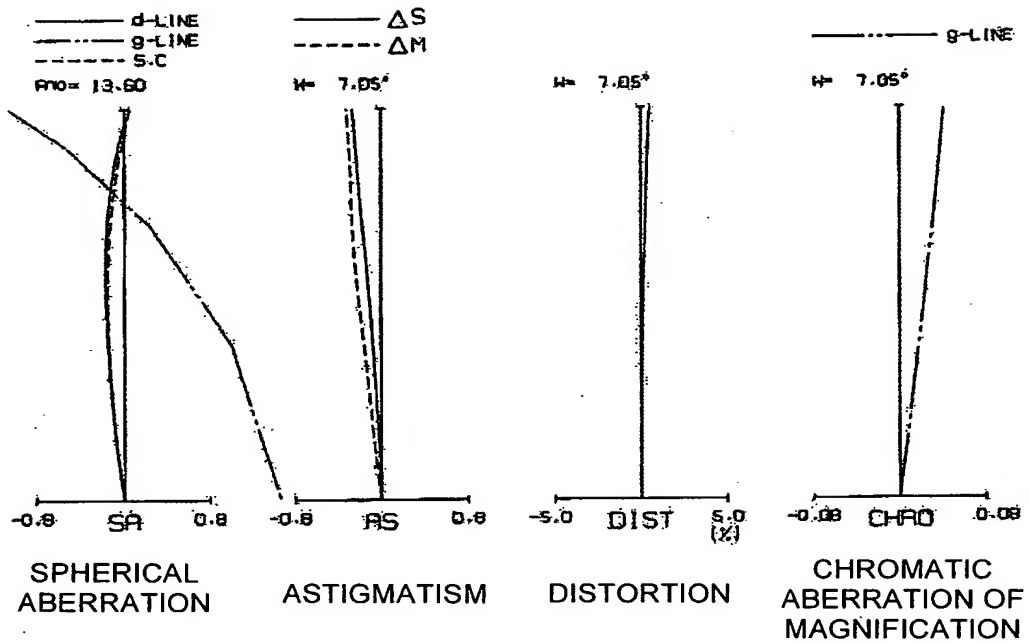
 $f = 174.94$ 




FIG.21A

OBJ= 800.00

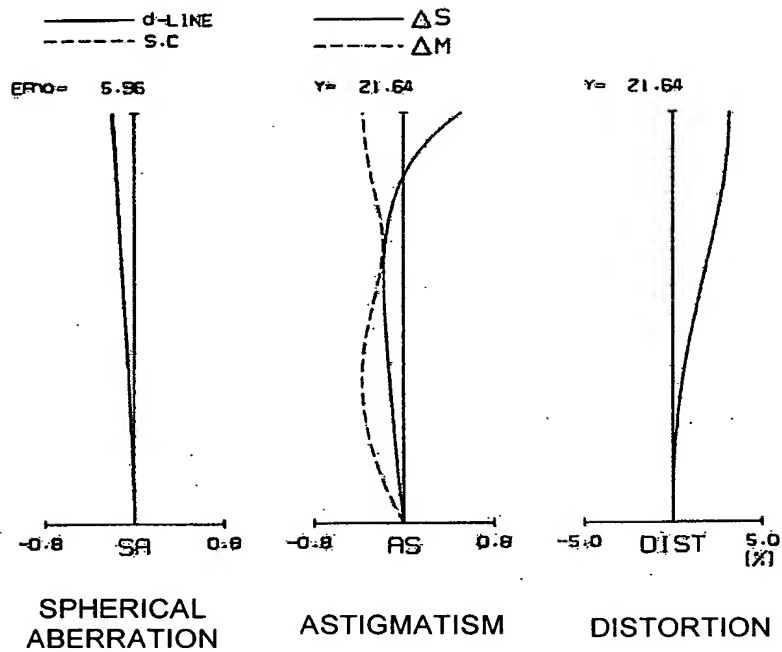


FIG.21B

OBJ= 800.00

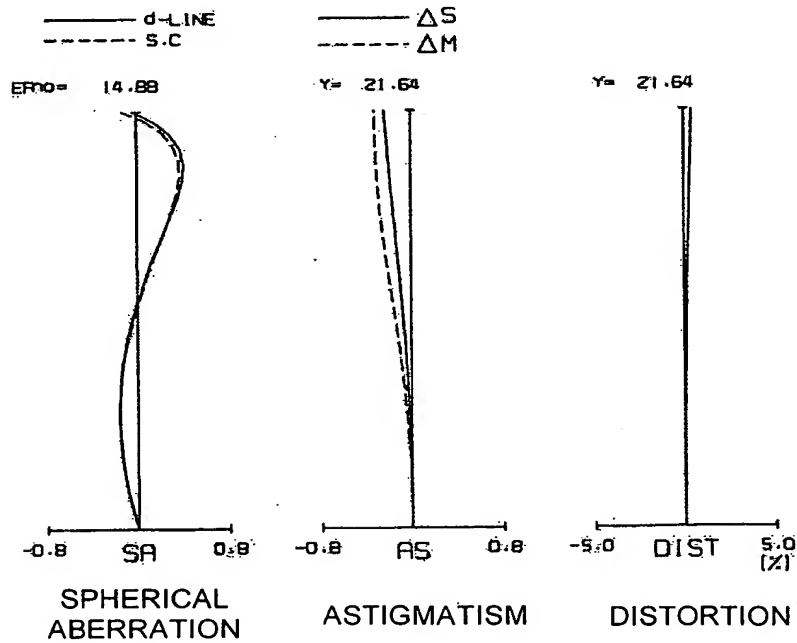


FIG.22A

OBJ= 800.00

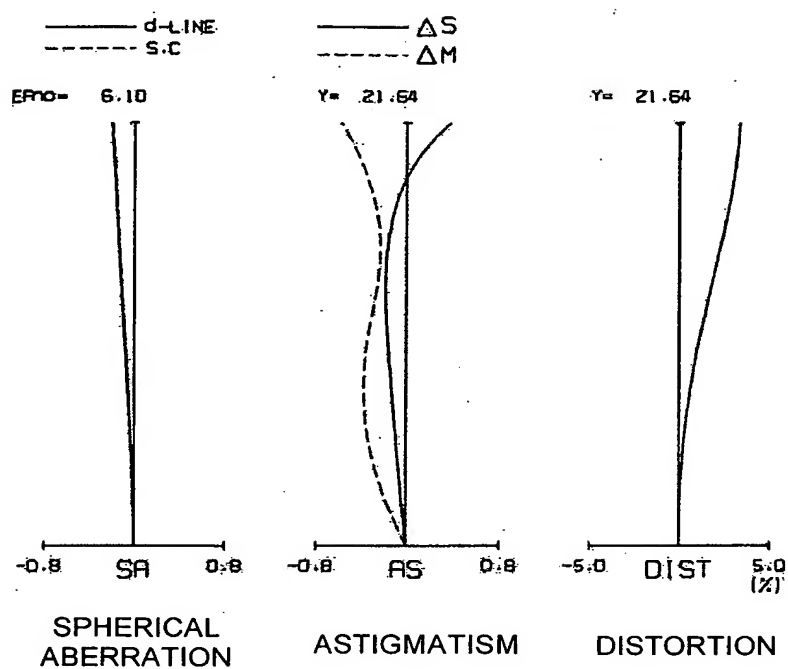


FIG.22B

OBJ= 800.00

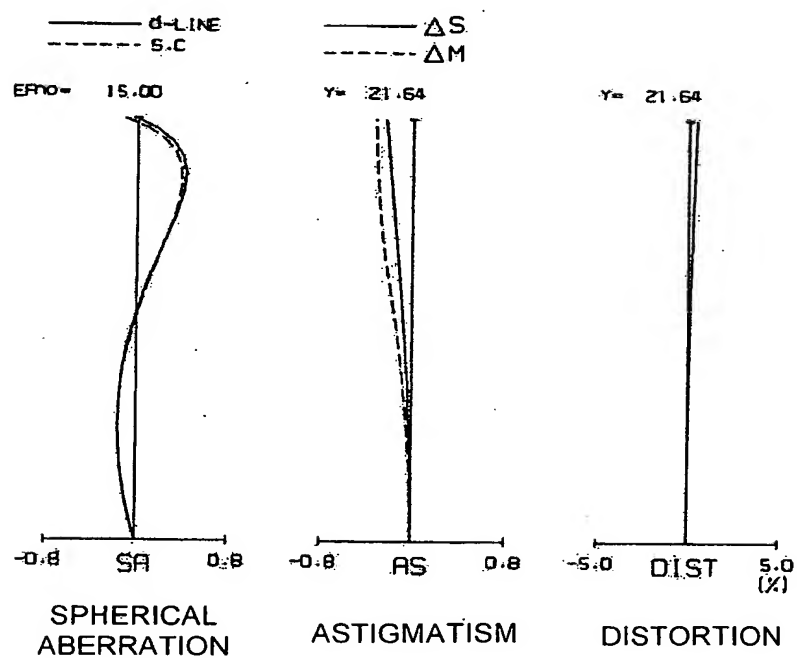


FIG.23A

OBJ= 800.00

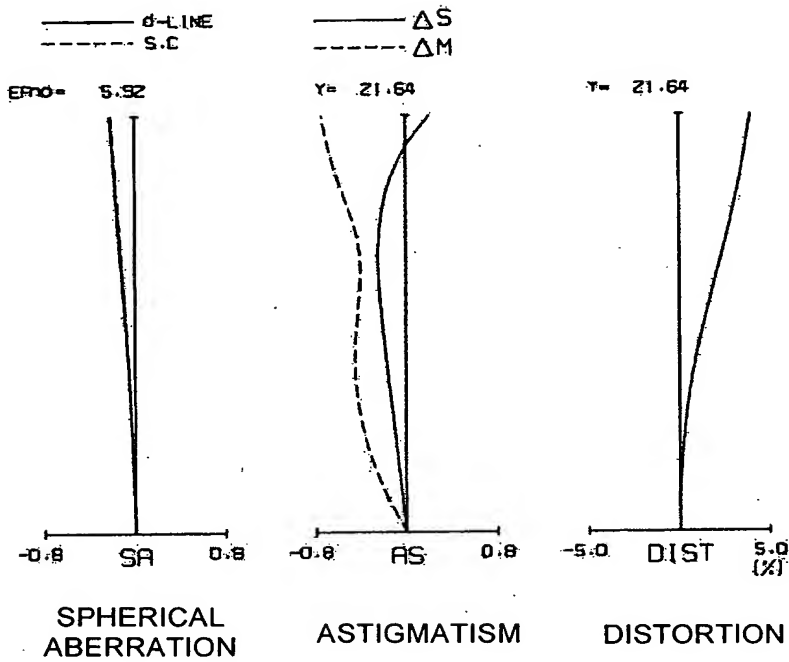


FIG.23B

OBJ= 800.00

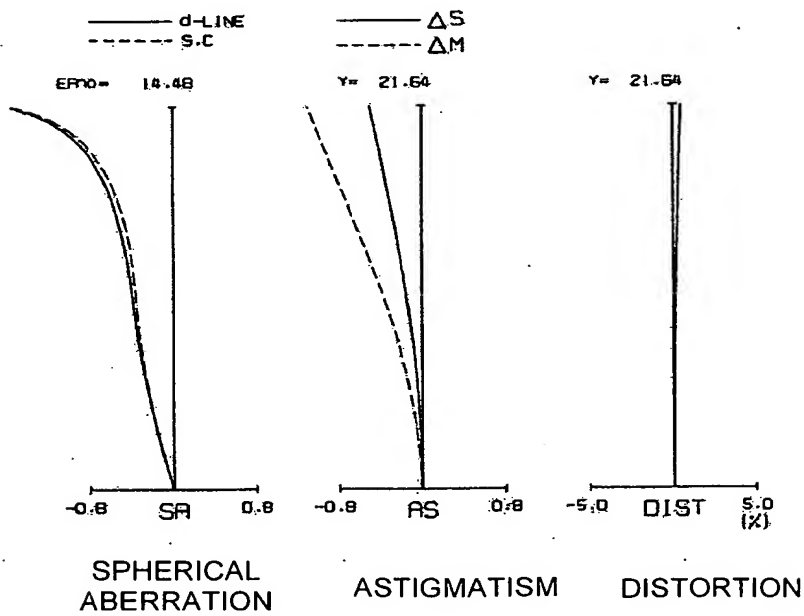


FIG.24A

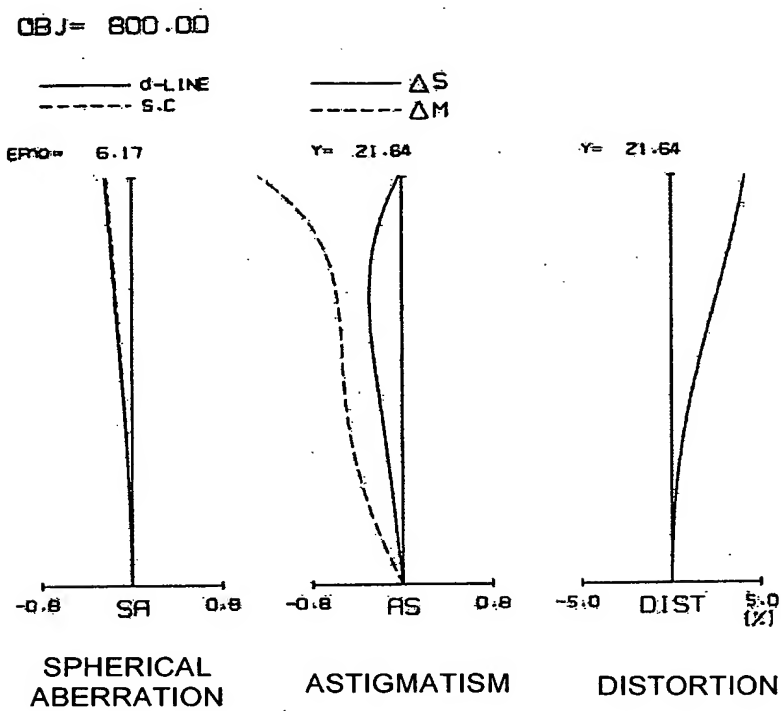


FIG.24B

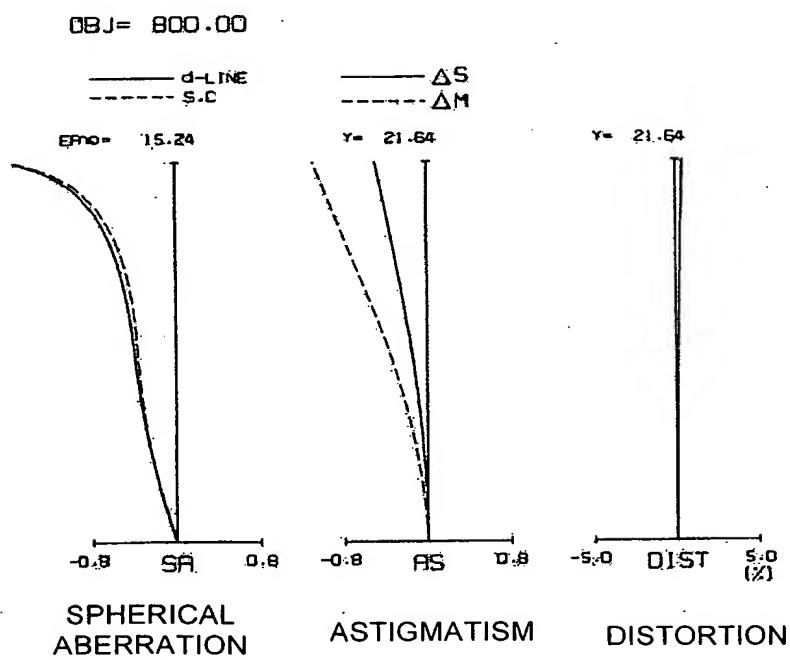


FIG.25

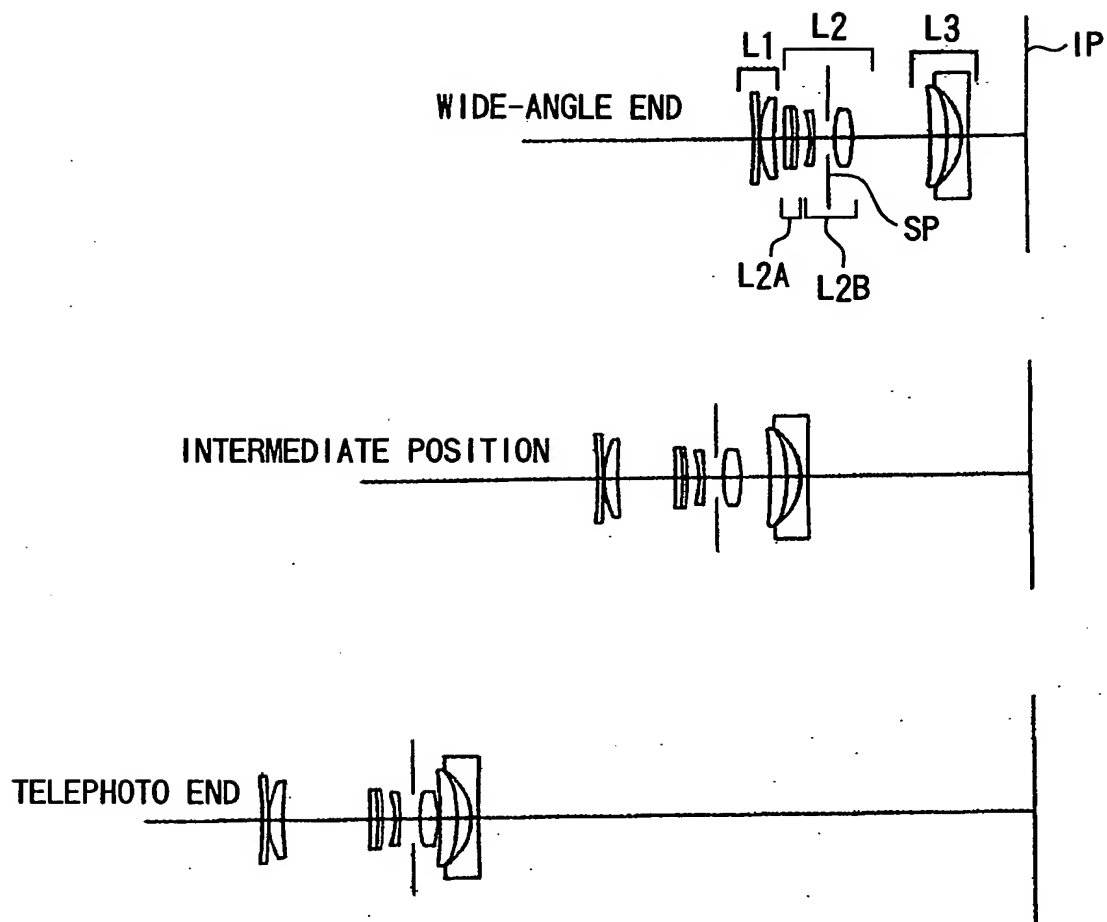


FIG.26A

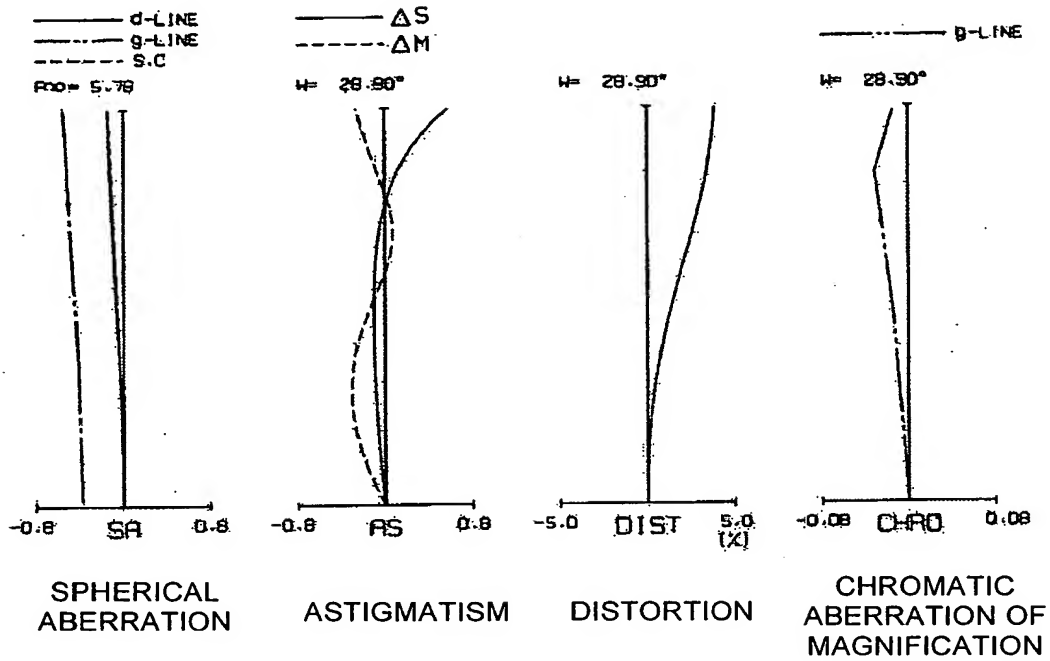
 $f = 39.18$ 

FIG.26B

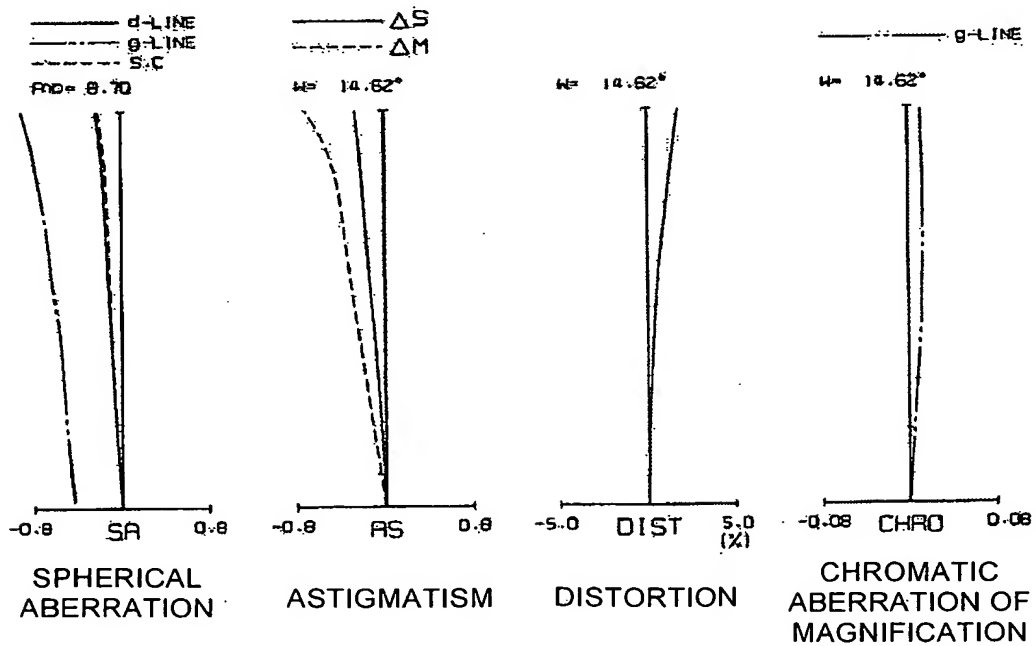
 $f = 82.93$ 

FIG.26C

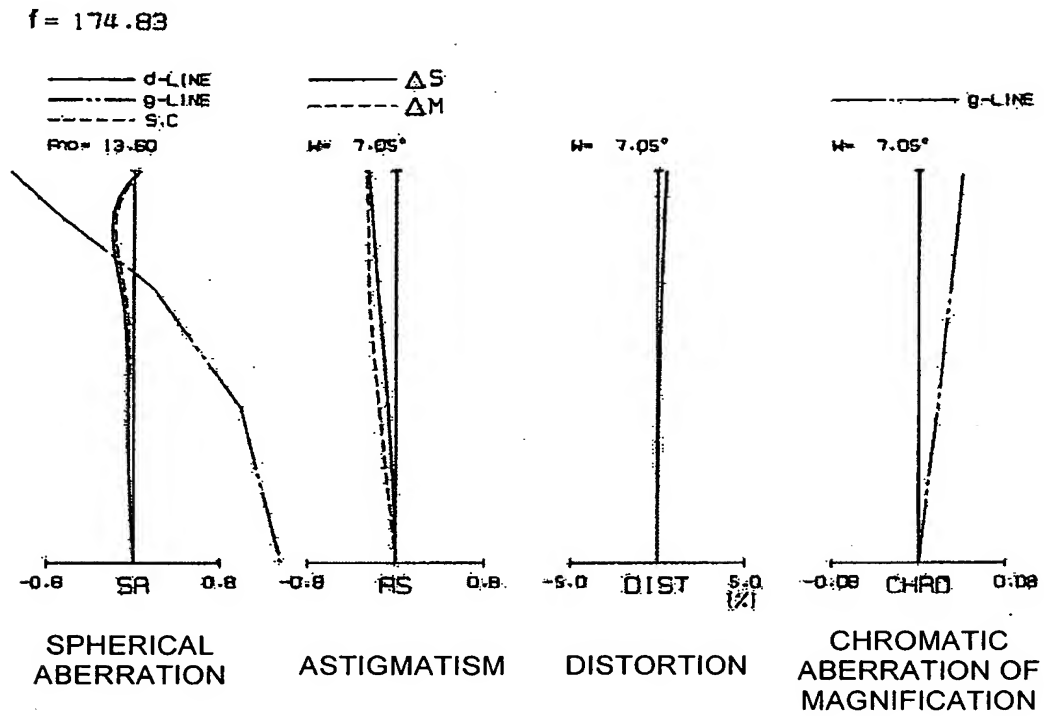


FIG.27

OBJ= 800.00

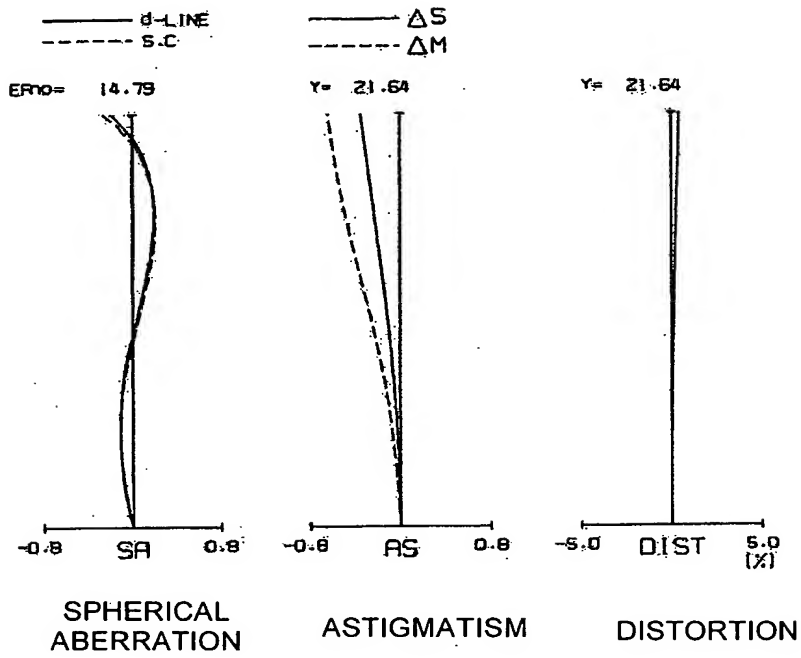




FIG.28A

OBJ= 800.00

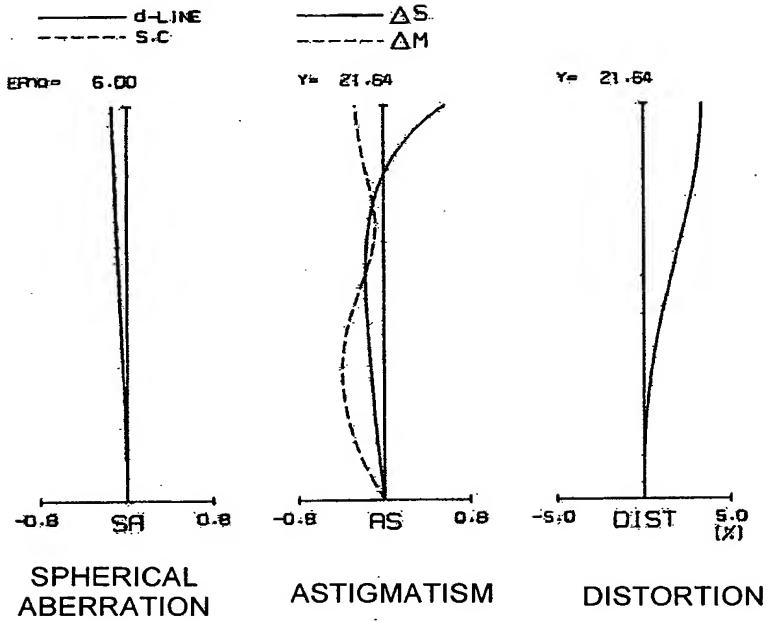


FIG.28B

OBJ= 800.00

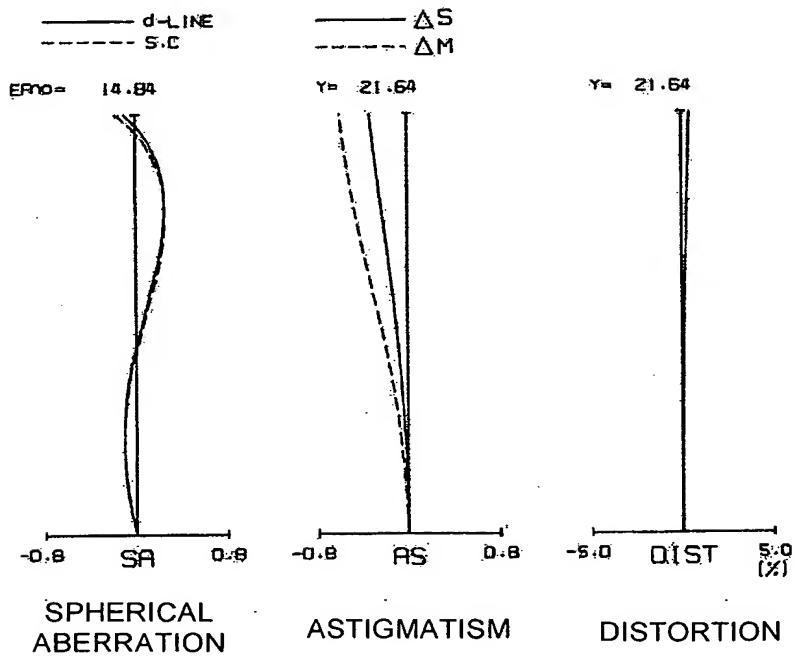


FIG.29A

OBJ= 800.00

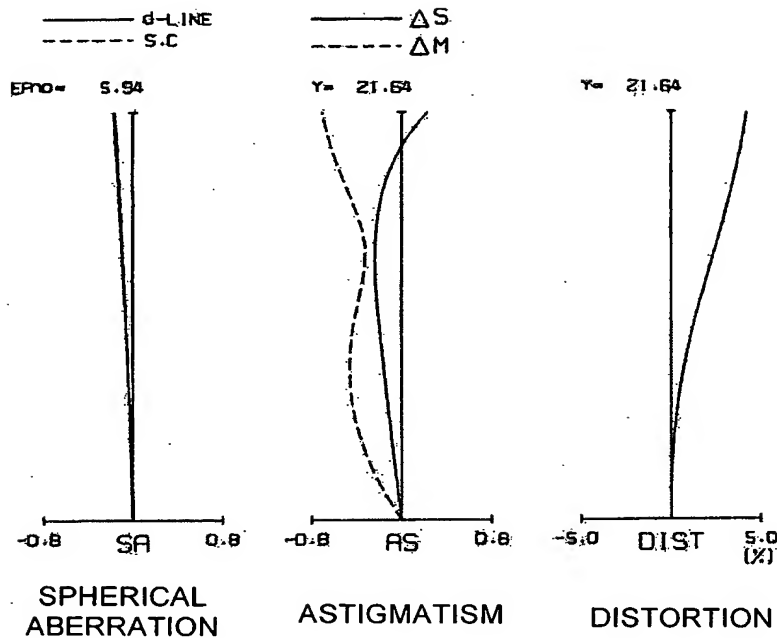


FIG.29B

OBJ= 800.00

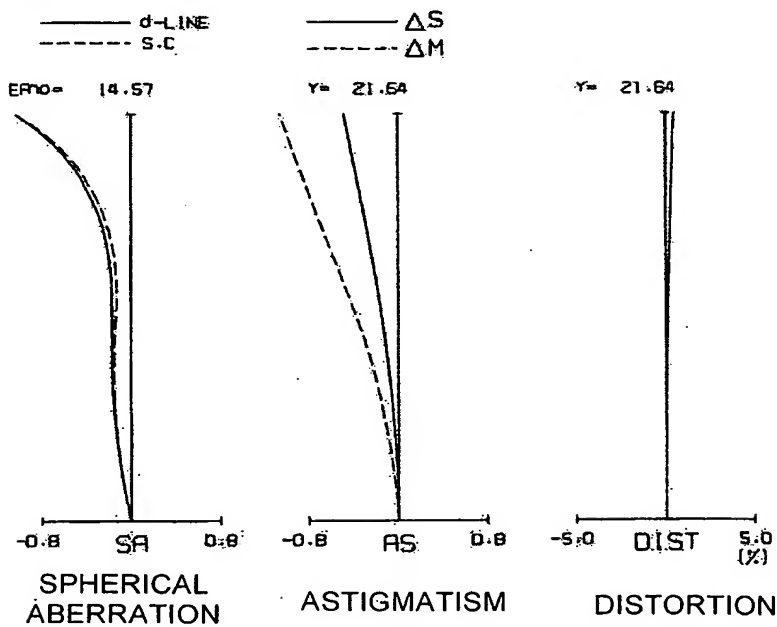
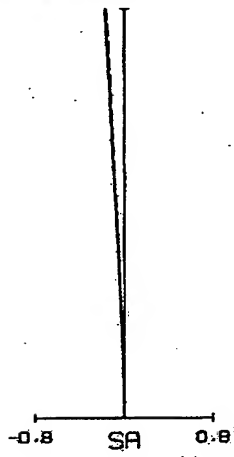


FIG.30A

OBJ= 800.00

—— d-LINE  
 - - - S.C

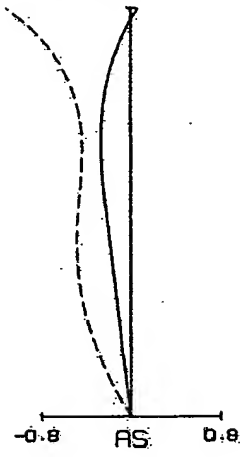
ERFO= 6.10



SPHERICAL  
 ABERRATION

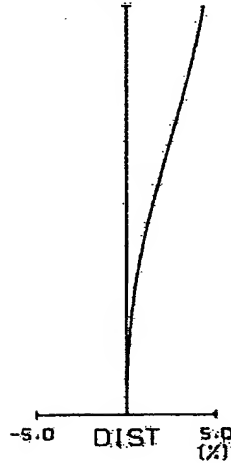
——  $\Delta S$   
 - - -  $\Delta M$

Y= 21.64



ASTIGMATISM

Y= 21.64



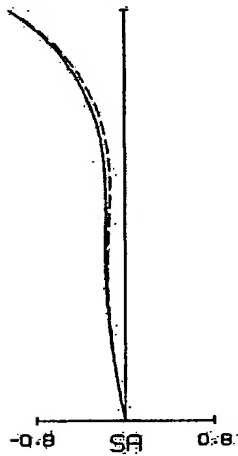
DISTORTION

FIG.30B

OBJ= 800.00

—— d-LINE  
 - - - S.C

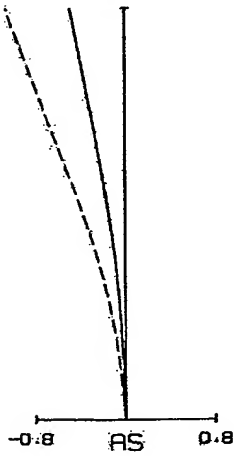
ERFO= 14.89



SPHERICAL  
 ABERRATION

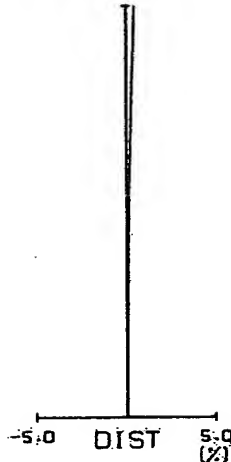
——  $\Delta S$   
 - - -  $\Delta M$

Y= 21.64



ASTIGMATISM

Y= 21.64



DISTORTION

FIG.31

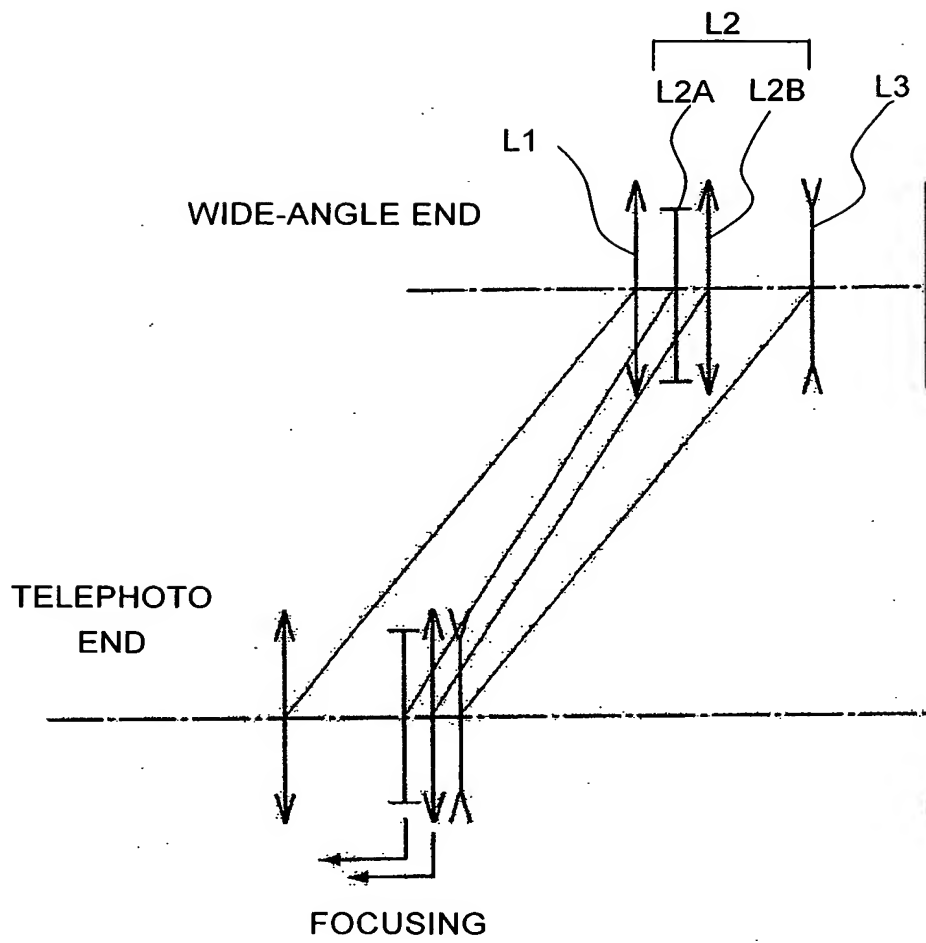


FIG.32

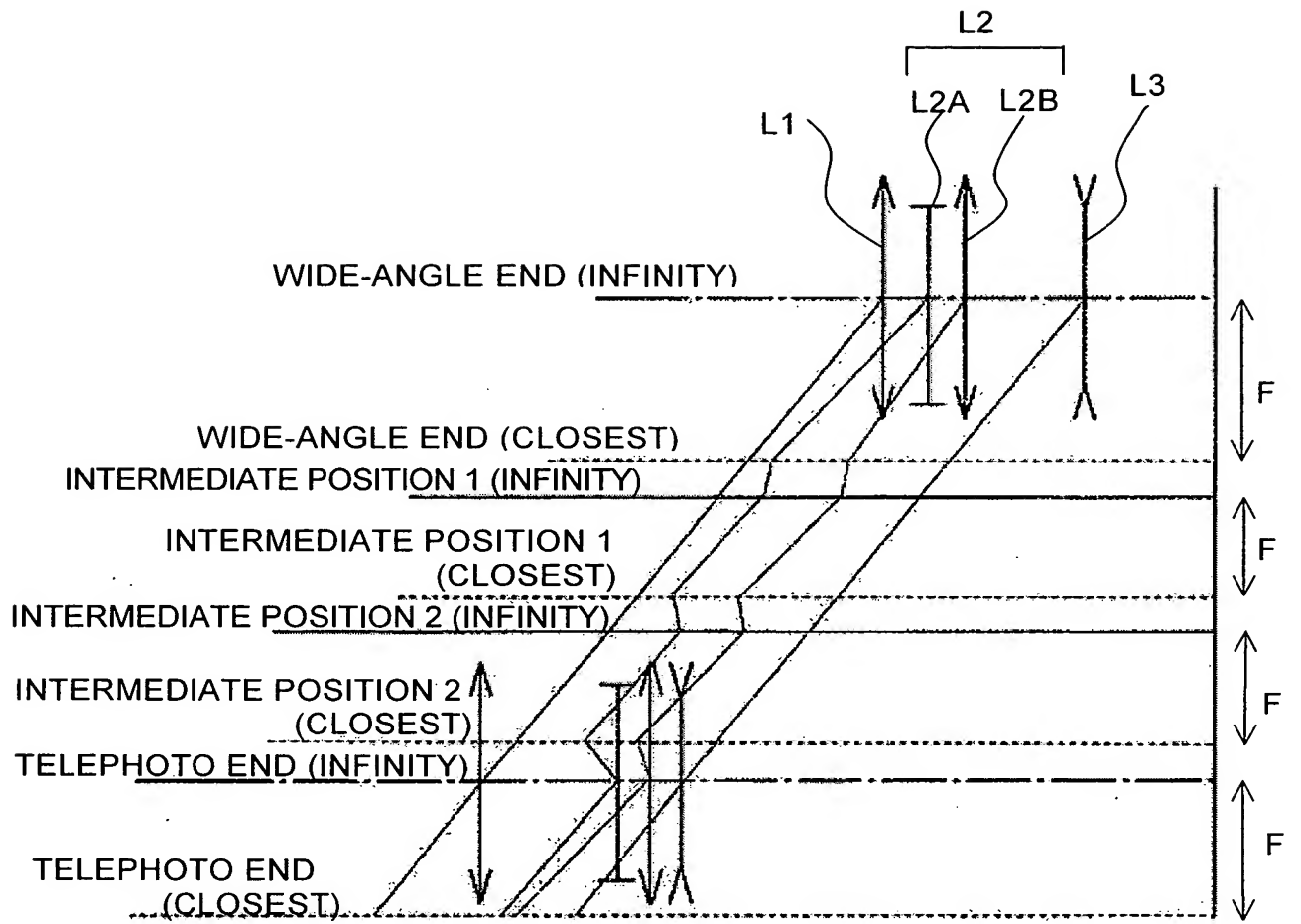


FIG.33

